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DEVELOPMENT TEST PLAN - QUALIFICATION DYNA-SOAR (STEP I)

R. K. Rasmussen, et al

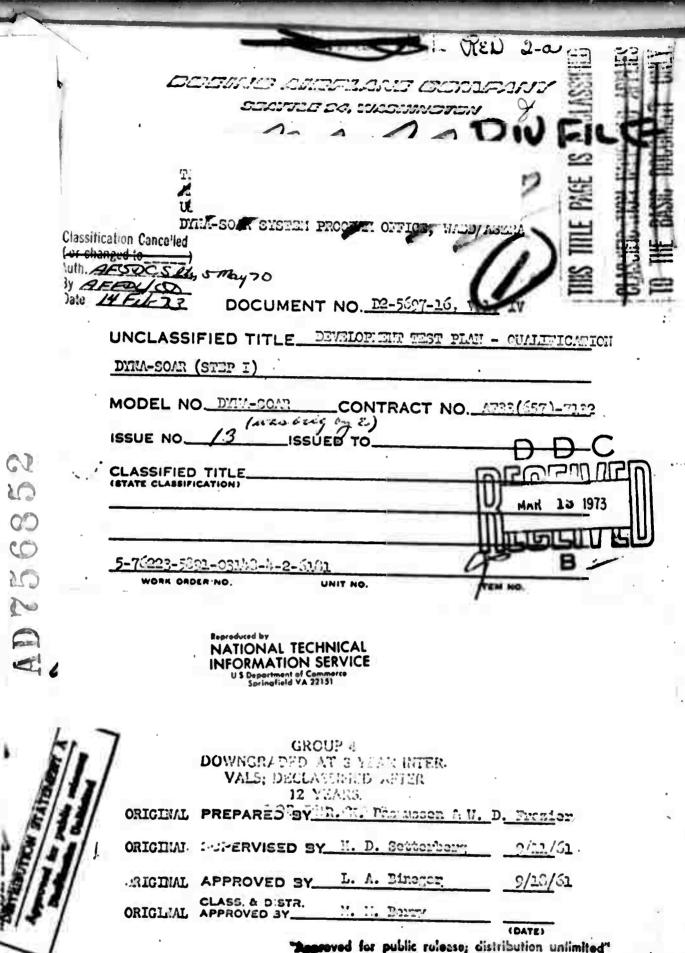
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18 September 1961

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Jan. 15, 1962 ..

Does and revised to rellect current status of qualification testing.

Prepared By:

Supervised By:

Approved By:

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FORE JARD

The development test plan for Dyna-Soar (Step I) Program is composed of the following three volumes:

Vol. II Development Test Plan - Design

Vol. IV Development Test Plan - Qualification

Vol. VI Development Test Plan - Design Integration

This document, Volume IV is prepared for purposes of summarizing the total qualification test plans and monitoring their implementation.

This document will be revised only when significant changes in the scope of qualification testing occur. The schedule and reference data included in the schedule summary of the test plan is included for reference purposes only.

Dyna-Soar qualification will be limited to ensuring that the equipment will safely, adequately and efficiently perform its intended functions. Generally, Dyna-Soar equipment is not required to be qualified to the extent the Air Force would specify for an operational weapon system.

Test Brief Numbering

Test briefs are numbered in sequence within numbered sections which are basically consistent with the Dyna-Soar program element breakdown. The sections are listed in the index.

R

2-6|8|-0-5

FUSELAGE

| 1.1.1.7 | QUALIFICATION | TEST PLAN | 4 | - | 11 |
|--|---|-----------------------|-----------------|--|-----------|
| Program Element No. | | | | E | Brief No. |
| Spec. & Dwg. No. (Jsed-On Dwg. No. (Jsed-On Dwg. No. Supplier Supplier's Address Supplier's Part Numb 2. Schedule Summar Task Test Plan Test Requirements Test Procedures Start Test Camplete Test | ar | Submittal Schodula | Dotos Actual | Appro | val By |
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| Program Element No | QUALIFICATION | | | | |
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| | | | | | |
| Task | Reference | Submittal | Cotos | Appn | au al |
| | Doc. No. | Schedula | Actual | Date | |
| Test Plan | | | | 2010 | Ву |
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| Final Report | | | | 111111 | 3/////// |
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Program Michael Mo.

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3.1.1.2

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Item Tested: Equipment Congramment

The design require ents of the equipment conjects out will be proven by Structural verification tests sovered by E2-5197-13, Vol. VI, Development Test Plan - Design Integration.

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Drice No.

1.1.1.8

Item Mested: Pilet's Campart out

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Item Tested: Pilat's Toda

The design require ents of Y = 41-414 Laten will be proven by structured verification tests covered by 2-5.57-10, Vol. VI, Development Test Plan -Design Integration.

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1.1.1.11

Program Element No.

Brief No.

T. Nem Tested Lain Landing Gear Assembly 44

Spec. & Dwg. No. (s) Used-On Dwg. No.

Supplier Boeing

Supplier's Address Seattle, Machington

Supplier's Part Number

2. Schodula Summary

| Task | Reference | Submittal Dates | | · Approx | vel |
|----------------------|--|-----------------|-----------|--------------|--|
| | Doc. No. | Schedule | Actual | Deta | ву |
| Test Pich | 12-5007-15, Vol. TV | | 2-5-02 | | |
| Test Reculrements | | 2.7.62 | 2.4.141.6 | - | |
| Test Procedures | | 6-1-62 | | + | |
| Stori Tost | VIIIIIIIIIIIIIII | 1-1-51 | | mm | mmm |
| Complete Test | mmmm | 5-1-53 | _ | \ | Hillian . |
| First Status Report* | The state of the s | 2.4.54 | _ | \ | <i>*************************************</i> |
| Final Report | | 2-1-61 | _ | YIII | 44444442 |

3. Summary of Tests Required

- ers (1) Drop Test To verify the structural adequacy of the main landing year under simulated operating loads.
 - (2) Life Cycling Run the gear assembly through a number of simulated heard loading, and operating cycles.

- 4. Special Facilities and/or Test Equipment (Include Estimated Load Time)
 use This test will be conducted on Trans Air Force Base test sled.
- 5. Test Conducted by:

Organization: Bosing Engineering Location: Seattle

Laboratories

6. Raquired Test Witnesses

Organization: -echanism and Pnoumatics Group and Structures Technology

/. Kemanes

The Ikin Landing Gear Assembly will include the Gear Assembly, hein Gear Door operating mechanism, and Gear Entension system. Patigue and Static tests will be the responsibility of Structures Technology with support from the Mechanisms and Pheumatics Group.

Date 1-5-62

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*cubalitied monthly thereefter 2-dial-0-5

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D2-5397-16 Vol. 1V

| Program Element | | QUALIFICATION | N TEST PLA | N | - 1 | ? |
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| | No. | | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | Briof No. |
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| Spec. & Dwg. N | | g. c. c. c. | | | | |
| Used-On Dwg. N | | | | | | |
| Supplier The | | | | | | |
| Supplier's Address | · Sentale | Unchir ten | | | | |
| Supplier's Part N | umbar | 114414111111111111111111111111111111111 | | | | |
| 2. Schedule Sum | wold. | | | | | |
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| | D | os. No. | Schodule | Actual | Date | 2y |
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| Test Requirements | | - | E-20-fc | | | _ |
| Test Proceduras | | Out Send of the last | 11-15-62 | | | |
| Start Test | 7/11 | THI THIND | 1-15-27 | | mm | mmmm |
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| 4. Special Facil | | | | imated Lec | od Timo) | • |
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| 5. Test Conducte Organize Booing 2 6. Required Test | ed by: otion ingineering Witnesses | le test machine | Locati | cn Seattle | | |
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| I. Item Tosted | | | | | Brief No. |
| Used-On Dwg. No. | ing Company eattle, Washington | Strap | | | |
| Task | Reference | Submittal | Dates | Appn | |
| | Doc. No. | Schedule | Actual | Dote | By |
| Test Plan | | IV | 1-5-52 | | 7 |
| Test Requirements | N Comment | 7-15-6 | | | |
| Test Procedures | | 11-15-6 | 2 | | |
| Start Test | | 1-15-6 | - | mm | mmmm |
| Complete Test | YIIIIIIIIII | 2-14-4 | | \ | ********** |
| First Status Report® | | 2-15-6 | | W///// | MHHHHHH |
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| Righ strain rate equipment used if for qualification. Test Conducted by: | tensile test mach for energy strap de on. | ine with have | 1 mm . 6 4 3 | | The same may be used |
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| | | Dog. No. | Schedule | | Date | By |
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| | Test Requirements | | 1 1 | 1-2-05 | | |
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| | Start Test | 7////////////////////////////////////// | | | mm | ****** |
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| | First Status Report* | The state of the s | 6-1-53 | | <i>44440</i> | |
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| | 3. Summary of Tests | Paritied | 7-1-63 | | | |
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| | 5. Test Conducted by | | | ···· | | |
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| | 6. Required Test Witn | 10550\$ | | | | |
| | Organization | | • | | | |
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| | 7. Remarks | | | | | ** |
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| Used-On Dwg. No. | Boeing Company ttle, Washington | Strap | | | |
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| Test Plan | Doc. No. | Schedule | Actual | Date | Ву |
| | 172-5607-16, VAL TY | | 2-5-62 | | 1 |
| Test Requirements | | 2-22-52 | | 7 | |
| Test Procedures | | 12-20-62 | | | |
| Start Test | | 2-20-63 | | 777777 | mmmn |
| Complete Test | | 3-20-63 | | <i>####</i> | 9444444 |
| First Status Report* | | 3-20-63 | | #### | SHALL HA |
| Final Report | | 4-20-03 | | 111111 | MIMILIA |
| 3. Summary of Tests R | oculred | - | | | |
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| 4. Special Facilities o | and/or Test Equipment (I | nclude Esti | mated Lea | d Time) | |
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| High strain rate 5. Test Conducted by: Organization Boeing Eng. | tensile test machine. | Locatio | | d Time) | |
| Figh strain rate 5. Test Conducted by: Organization Boeing Eng. 6. Required Test Witne Organization Mechanisms | tensile test machine. | Locatio S | n eattle | | |
| High strain rate 5. Test Conducted by: Organization Boeing Eng. 5. Required Test Witne | tensile test machine. | Locatio S | n eattle | | |
| Figh strain rate 5. Test Conducted by: Organization Boeing Eng. 6. Required Test Witne Organization Mechanisms | tensile test machine. | Locatio S and Struc | n eattle | | |

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| Program Element No L. Item Tested | - QUALIFICATION | N TEST PLA | N | | Brief No: |
| Spec. & Dwg. No. Used-On Dwg. No. Supplier | o Boeing Company outtle, Mashington | Strap | | | |
| Task | Reference | Submittal | Dates | Appr | ovel |
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| Tost Plan | 72-57677-15, Vol. TV | | | Date | Ву |
| Test Requirements | Total Av. | 7 42 45 | 1-5-62 | _ | |
| Test Procedures | | 7-15-62 | - 11 | | |
| Stort Test | VIIIIIIIIII | 12-01-63 | | | |
| Complete Test | | 7-11-51 | | | |
| First Status Report* | | 5-51-53 | | 111111 | Million |
| Final Report | | 3-21-65 | | | Million |
| 3. Summary of Tests | <u></u> | 4-21-53 | | | The state of the s |
| quelify the ene | on tests at various str rgy strap as a landing | ain rates shock abs | and temp orber. | oratures | |
| 4. Special Facilities High strain rate equipment used f | and/or Test Equipment (In tensile test machine we'er energy stran daysless | aciuda Esti | mated Lea | d Time) | |
| 4. Special Facilities High strain rate | and/or Test Equipment (In tensile test machine we'er energy strap development | aciuda Esti | mated Leading facili | d Time) | |
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| l. Item losted | | | | | Brief No. |
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| 2. Schedule Summa | y | | | | |
| Task | Reference Doc. No. | Submitte | Catas | App | roval |
| Test Plan | 500, 170, | Schadula | Actual | Date | By |
| Test Regularments | | | | | |
| Test Procedures | | 9-11-62 | | | |
| Start Test | VIIIIIIIIII | 10-11-62 | | 1388 | |
| Complete Test | VIIIIIIIIIIIIII | 12-11-62 | | 1///// | MIMI |
| First Status Taport* | | 1-11-63 | | VIIII | THIN ! |
| Final Report | | 1-11-63 | | | Million |
| 3. Summary of Tests | Recuired | 2-11-63 | | | 1 |
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| Special Facilities | and/or Test Equipment (In | | | | · · |
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| Program Element No. | - GOALIFICAT | ION TEST PLA | N. | | Brief No. |
| I. Item losted | | | | | bilet 140. |
| Used-On Dwg. No. (Supplier Ed. | cing Secutile, Washington | ecorrect and | | e | |
| Task | Reference | Submittel | | Appr | ovel |
| Test Plan | Doc. No. | Schedule | Actual | Cate | Ly |
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| Test Requirements | | | | | |
| Test Procedures | ////////// | | | | Torrest Land |
| Start Test | 4444444 | 1-15-62 | | 111111 | MIIIIII |
| Complete Test | 111111111111111111111111111111111111111 | 10 | | VIIII | MIMINI |
| First Status Report* | | | | 111111 | MIMITA |
| Final Report 3. Summary of Tests | | | | 1 | 1 |
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| (1) Life cycl: (2) Static Tes | ing tests under simusts (load to failure | lated environ | | condition | s. |
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| 4. Special Facilities None Test Conducted by Organization | sts (load to failure cand/or Test Equipmen | ·)• | mmental | ٠. | s. |
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| 4. Special Facilities None Test Conducted by Organization Engineering | cnd/or Test Equipmen | t (include Esti | mmental | ead Time) | s. |
| 4. Special Facilities None Solution Properties Organization Engineering Required Test With Organization | cnd/or Test Equipmen | t (include Esti | mmental | ead Time) | s. |
| 4. Special Facilities None Solution Regulation Engineering Required Test With Organization Machenisms 7. Remarks | cnd/or Test Equipmen | t (include Esti | mmental | ead Time) | |
| 4. Special Facilities None Solution Programmer and Programmer an | cnd/or Test Equipmen Labs nesses Croup | t (include Esti | mmental | ed Time) | 6! |

*In accordance with the Dyna-Seer Rad policies, the above "Qualification Test" is conducted as a "Preliminary Flight Rating Test (FFRT),". These tests are generally in accordance with MIL-R-25535A, as modified by Booing Document M2-8157-1, "Design Procurement Specification-Accoleration Rocket Notor."

Date 12-20-51

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| TERATION | Ten. Laurel | | , | × | и | | | | × | | | | | | | | Vibration, be subject controlled |
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HATCH EJECTICH SUBSYSTEEL

Spec. & Dwg. No. (s) Usad-On Dwg. No. Supplier Supplier's Address Supplier's Part Number

2. Schodule Summary

| · Task | Reference | Submittel | Dates | Appre | ovel |
|---------------------|-----------|-----------|----------|---------|------------|
| | Doc. No. | Schadulo | Actual | Data | 1 24 |
| Test Pich | | 5-75-52 | 15-31-61 | | |
| Test Regularments | | 6-15-62 | | | |
| Test Procedures | | 0_15_59 | | | |
| Start Tost | | 12-15-32 | | 1111111 | mmm |
| Complete Tout | | 5-27-12 | | dillin | mmmi |
| First Status Report | | 2-15-53 | | VIIII | Mana Maria |
| Final Report | | 5-20-63 | | 1 | |

3. Summary of Tests Recuired

To qualify the components of the hatch ejection subsystem (release device, thrusters, initiatore, sjection ystem controls etc.) as a subsystem in conjunction with the butch assume ly and ejection seat subsystem.

- 4. Special Facilities and/or Test Equipment (Include Estimated Lead Time)
- J. . Test Conducted by:

Organization Poeing

Location FAF B - (Sled Tests)

6. Required Test Witnesses

Organization Propulsion and Ordnesice Group 2-6134-4

7. Remarks

The complete escape system (ejection seat, hatch, initiators, thrustere, release devices, ejection system, (controls, except pilot's control and external control, etc.) will be qualifie as a system during the Dynn-Soar escape system sled tests which are slated to begin at EAFB approximately December 15, 1962 and will terminate approximately May 23, 1963.

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| Program Element No | GUALIFICATION | | | 9-1-1 |
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| I. Item lested | on dimorion substitute (| | | Brief No. |
| Spec. & Dwg. No. 1 Used-On Dwg. No. Supplier Supplier's Address Supplier's Part Numb | (s) | | • | |
| 2. Schedule Summa | ry | | William William | |
| Task | Reference Dos. No. | Submittel Dat Schedulo Act | | proval |
| lest Pich | | E-15-(2 | Daile - | ēγ |
| Test Requirements | | 4-25-62 | | |
| Test Procedures | | 6-15-62 | _ | |
| Start Test | 111111111111111111111111111111111111111 | 122-15-62 | m | mmm |
| Complete Test | | 11-30-00 | | 44444 |
| inst Status Roports | | 133-90-09 | 11111 | William ! |
| inal Report B. Summary of Yests | | 22-30-62 | 1111 | Comment of the Commen |
| | to be obtained. | | | ttison ty type tes |
| | s and/or Test Equipment (1 | Include Estimate | ed Lead Time) | |
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| Mone Required Test Conducted b Organization | s and/or Test Equipment (1 y: n Docing | | ed Lead Time) Seattle (Car | |
| Mone Required Test Conducted b Organization | s and/or Yest Equipment () y: n Docing | | | |
| None Required Test Conducted b Organization Required Test Will | s and/or Yest Equipment () y: n Docing | Location | Seattle (Car | |
| Mone Required Test Conducted b Organization Required Test Will Organization | s and/or Yest Equipment () y: n Docing | | Seattle (Car | |

| Desmand Classic N. S. | -I QUALIFICA | TION TEST PLA | N | | 4 |
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| rogram Element No. | | | | | Brief No. |
| . Item Tested Property of the | ilot's Hatch Ejecti | on Thruster | | ν. | |
| upplier upplier's Address upplier's Part Numb . Schedule Summar | ery | | | | |
| Task | Reference | Submittal | Dotes | Appn | oval |
| est Plan | Doc, No. | Schedule | Actual | Date | By |
| | | 6-5-62 | | | |
| est Requirements est Procedures | | 3-21-62* | | | |
| ort Test | mmm | 7-21-62 | 200 | | |
| emplete Test | \ | 9-21-62 | | V////// | XIIIIIIII |
| nst Status Report* | | 11-21-52 | | VIIII | |
| Inal Report | | 10-21-62 | | V////// | |
| Summary of Tests | Parada d | 12-21-52 | | | |
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| | and/or Test Equipments for facilities | nt (Include Esti | imated Le | ad Time) | |
| . Yend | dor facilities | nt (Include Esti | imated Le | od Time) | |
| . Yend | dor facilities | nt (include Esti | | ad Time) | |
| .Test Conducted by Organization | dor facilities Vendor | | | od Time) | |
| .Test Conducted by Organization | dor facilities Vendor | Locatio | | ad Time) | |
| Test Conducted by Organization Required Test With Organization Remarks | dor facilities Vendor | Location | on | ad Time) | |
| Test Conducted by Organization Required Test With Organization Remarks | Vendor Engineerin | Location | on os | od Time) | |

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QUALIFICATION TEST PLAN

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| 33 | | QUALIFICATION | TEST PLA | N | | |
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| | gram Element No. | | | | | Brief No. |
| 1. | Item Tested | | | | | |
| Sup Sup Sup | ec. & Dwg. No. (ed-On Dwg. No. | eing er | | | | |
| | · Task | Reference | 61 11 | | | |
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| Tes | t Plan | This sheet | 3049C016 | Actual | Data | Ву |
| | t Requirements | THEO BEGGG | 10 11 | | _ | |
| | i Procedures | | 2.1-62 | | | |
| | rt Test | VIIIIIIIII. | 9-1-62 | | mm | · · · · · · · · · · · · · · · · · · · |
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| | st Status Report* | | 6-1-69 | | 1///// | |
| | al Report | | 10-1-62 | | 1////// | |
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| | 1.2.3.3 | QUALIFICATION | I TEST PLA | N | | 1 | |
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| | I. Irc.m Tested Glid | er Hydraulic System | | | | | |
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| 1 | Supplier's Part Number 2. Schedule Summary | | | | | | |
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| 1 | Task | Reference Dec. No. | Submittal Schodule | Dates | Appro | | |
| и | Test Plen | mide glorge | SCHOOLE | | Date | By | |
| | Test Requirements | | | 1-9-60 | _ | | |
| | Test Procedures | 15. | _ | | | | |
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| | 6. Required Test Witnes | ses | | | | | |
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| | 1,1,3,3 | QUALIFICATION | TEST PLA | N | | |
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| | I. Item Tested | lana si ma ili alia si sa sa sa | | | | 4101 140. |
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| • | Test Requirements | | | | | |
| | Test Procedures | JA-wineru | B-31-61 | | | |
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| • | c. Proof and Bu d. Endurance to | tesus to determine comminers, and particle size instructions. Sets under ground and and and and/or Test Equipment (in | trborne ec | mition | s. | |
| | 5. Test Conducted by Organization | | Locatio | n | | |
| | 6. Required Test With Organization | | ics | • | | |
| | 7. Remarks This plants | un is being revised and | will be a | 7017-52 | e February | 15, 1962. |
| 0 | | | | 8-1/:-6 | 3 | |
| 55 | 1-15-62 | | Data | 0-20-0 | 1, | 0 |
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| 1. Item Tested C | lider mader Servo Actu | | | | one: 140. |
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| Supplier's Part Numb | er | | | | |
| 2. Schedule Summar | 7 | | | | |
| Task | Reference | Submittal Dates | Dates | A | |
| | Doc. No. | Schedula | | Appn | |
| Test Plan | This Siese | | | | Ву |
| Test Requirements | | 10000 | 1-10-6 | - | |
| Test Procedures | | | | _ | |
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| 5. Test Conducted by: Organization | 2-5554 Machanical-Propulsion Laborator | Locatio | n | | • |
| 6. Required Test With Organization | esses 2-513%-1 Dyna-Soar (/draw): | ics | | | |
| 7. Remarks | | | | | |
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| Test Procedures | 10-71035 | 2-1-62 | | - | |
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| • | Supplior's Part Number | | | | | |
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| fo | Test Plen | | | 11001 | Cuio | -y |
| . [5] | Test fleeulremants | 30-91007 | 9-2-61 | 9/3/61 | | |
| 8 | Test Procedures | | | 97.4707 | | |
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| performence performence performence livdraulic a 1. Special Facilities 5. Test Conducted b Organization 6. Required Test Will Organization 7. Remarks See integration | tests to determine con requirements under connact Fluid Cooling System and/or Test Equipment (y: 2-535% h Messes 2-313%-1 m Dyna-Soar Mydraul gration test environment | include Est LebLocati ics tel simula | ind temperation with ministration parties imported Least attor test | ratures. mum Tydr l failur od Time) ali.p | caulic Sys | |

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| 1.1.3.3 | QUALIFICATION | ON TEST PLAN | N | | 2.5 |
| Program Element No. | | or its its | | | Brief No. |
| I. Item (ested Flui | d Level Indicator | | | | 21101 110. |
| Spec. & Dwg. No. (s) Used-On Dwg. No. Supplier Supplier's Address Supplier's Part Number | 10-31169 Reservo | ir Assy Hydro | aulic | • | |
| 2. Schedule Summary | | | | | |
| Task | Reference | C. L | 2 . | | |
| | Dos. No. | Submittel Schedule | | Appro | |
| Test Plan | | Juliecule : | -wivel | Date | By |
| Test Requirements | 20-03200 | 1 20 (0) | | - | |
| Test Procedures | The second secon | 1-20-0 | | _ | |
| Start Test | | 70 | | mm | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| Complete Test | | 8 | _ | 4444 | |
| First Status Report* | | | | \ | 9444444 |
| Final Report 3. Summary of Tests Re | | | | YUUU | |
| e) Shock f) Overpressure g) Electrical Inch h) Visual Inspectant Drawing Co | tica for Worksenship ompliance | | nated Lea | ed Time) | |
| | | | • | | |
| 5. Test Conducted by: Organization Vendor | | Location | | | • |
| 6. Required Test Witnes Organization | ises | | | ··· | |
| 7. Remarks | | Data 1- | -10- | 62 | |
| 1-15-62 *submitted monthly the | preafter | 78 | D2 | 2-5397-16 | Page |

| Program Element No. I. Item Tested 2 Pressure Transducer Spec. & Dwg. No. (s) 10-81110 Used-On Dwg. No. Supplier's Address Supplier's Address Supplier's Part Number Z. Schedule Summary Task Reference Doc. No. Schedule Actual Date Procedures Submittal Dates Approval Test Plan Test Recutrements 10-81110 2-10-62 Interest State Required A Remarks Summary of Tosts Required A Remarks Summary of Tosts Required A Remarks Summary of Tosts Required A Remarks Special Facilities and/or Test Equipment (include Estimated Lead Time) Date 1-10-62 Date 1-10-62 | | 1.1.3.3 | QUALIFICATION | N TEST PLA | N | | 25 |
|--|--------------------------------------|---|---|-------------|-----------|-----------|-----|
| Spec. & Dwg. No. (s) 10-81210 Used-On Dwg. No. (s) 10-81210 Used-On Dwg. No. 10-81210 Supplier's Address Supplier's Address Supplier's Pert Number 2. Schedule Summery Tesk | | | | . , | • | ī | |
| Test Plan Test Requirements Test Procedures Stort Test Complete Test First Stetus Report* Finel Report 3. Summery of Tests Required a) Hermatic Seal b) Pressure c) Send and Dust d) Inhearity f) Vibration g) Life h) Shock 1) Overpressure j) Electrical Insulation k) Visual inspection for vorticenship and Dig compliance 4. Special Facilities and/or Test Equipment (include Estimated Lead Time) 5. Test Conducted by: Organization 7. Remarks Date 1-10-62 | Spec Used Supp Supp Supp | No. 12 . & Dwg. No. (s) -On Dwg. No. lier lier's Address lier's Part Numbe | 10-81110 Reserv | oir Assy - | - Hydrau | lie | |
| Test Plan Test Reculrements Test Procedures Start Test Complete Test First Status Report* Final Report 3. Summery of Tests Required a) Hormatic Seal b) Pressure c) Sand and Dust d) Industrity f) Vibration g) Life h) Shock 1) Overpressure j) Electrical Insulation k) Visual inspection for workmenship and Dig compliance 4. Special Facilities and/or Test Equipment (Include Estimated Lead Time) 5. Test Conducted by: Organization Vendor Congalization 7. Remarks | | Task | Reference | Submittal | Dates | Annm | uel |
| Test Recuirements Test Recuirements Test Procedures Start Test Complete Test First Status Report* Finel Report 3. Summary of Tests Required a) Hornatic Seal b) Presenure c) Sand and Dust d) Rundaity e) Linearity f) Wibration G) Life h) Shock f) Overpressure j) Electrical Insulation k) Visual inspection for workmenship and Day compliance 4. Special Facilities and/or Test Equipment (include Estimated Lead Time) 5. Test Conducted by: Organization Vendor Location 7. Remarks | | 28025 | | | | | |
| Start Test Complete Test First Status Report* Final Report 3. Summary of Tests Required a) Hormatic Seal b) Presenure c) Sand and Dust d) Runidity e) Linearity f) Wibration G) Life h) Shock 1) Overpressure j) Electrical Insulation k) Visual inspection for workmenship and Day compliance 4. Special Facilities and/or Test Equipment (include Estimated Lead Time) 5. Test Conducted by: Organization Vendor Location 6. Required Test Witnesses Organization 7. Remarks | Test | Pian | | 1 | | | 7 |
| Start Test Complete Test First Status Report* Final Report 3. Summary of Tests Required a) Hormatic Seal b) Presenure c) Sand and Dust d) Runidity e) Linearity f) Wibration G) Life h) Shock 1) Overpressure j) Electrical Insulation k) Visual inspection for workmenship and Day compliance 4. Special Facilities and/or Test Equipment (include Estimated Lead Time) 5. Test Conducted by: Organization Vendor Location 6. Required Test Witnesses Organization 7. Remarks | | | 10-81110 | 0.20.00 | _ | _ | |
| Stort Test Complete Test First Stotus Report* Finel Report 3. Summery of Tests Required a) Homeatic Seed b) Pressure c) Send and Dust d) Rundaity e) Linearity f) Vibration 5. Life h) Shock 1) Overpressure j) Electrical Insulation k) Visual inspection for workmenship and Day compliance 4. Special Facilities and/or Test Equipment (Include Estimated Lead Time) 5. Test Conducted by: Organization Vendor Location 6. Required Test Witnesses Organization 7. Remarks | | | av-state | 5-10-53 | | - | |
| First Stebus Report* Final Report 3. Summary of Tosts Required a) Harmatic Seal b) Pressure c) Send and Dast d) Runidity e) Linearity f) Vibration g) Life h) Shock 1 Overpressure j) Electrical Insulation k) Visual inspection for vorticenship and Day compliance 4. Special Facilities and/or Test Equipment (include Estimated Lead Time) 5. Test Conducted by: Organization Vendor Location 6. Required Test Witnesses Organization 7. Remarks | | | VIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII | - | - | viiii | |
| First Status Report Final Report 3. Summary of Tests Required a) Hormatic Seal b) Procesure c) Send and Bust d) Buridity e) Linearity f) Vivration G) Lize h) Shock 1) Overpressure j) Electrical Insulation k) Visual inspection for workmenship and Bug compliance 4. Special Facilities and/or Test Equipment (include Estimated Lead Time) 5. Test Conducted by: Organization Vendor Location 6. Required Test Witnesses Organization 7. Remarks | | | *///////////////////////////////////// | 1 | | 1////// | |
| Final Report 3. Summary of Tosts Required a) Hormatic Seal b) Pressure c) Send and Dust d) Runddity e) Linearity f) Vibration 5. Life h) Shock 1) Overpressure j) Electrical Insulation k) Visual inspection for worksenship and Drg compliance 4. Special Facilities and/or Test Equipment (include Estimated Lead Time) 5. Test Conducted by: Organization Vandor Location 6. Required Test Witnesses Organization 7. Remarks | | | | 1 | | 1111111 | |
| a) Hermatic Seal b) Preciouse c) Send and Dust d) Randdity e) Linearity f) Vibration g) Life h) Shock 1) Overpressure j) Electrical Insulation k) Visual inspection for vorthership and Day compliance 4. Special Facilities and/or Test Equipment (include Estimated Lead Time) 5. Test Conducted by: Organization Vendor Location 6. Required Test Witnesses Organization 7. Remarks | | | | | | 1111111 | |
| a) Hermatic Seal b) Presoure c) Sand and Dist d) Runddity e) Linearity f) Vibration g) Life h) Shock 1 Overpressure j) Electrical Insulation k) Visual inspection for vorthership and Dig compliance 4. Special Facilities and/or Test Equipment (Include Estimated Lead Time) 5. Test Conducted by: Organization Vendor Location 6. Required Test Witnesses Organization 7. Remarks | | | | | | | |
| Organization Vendor 6. Required Test Witnesses Organization 7. Remarks Date 1-10-62 | σ | Vibration Life Shock Overpressure | | | | | |
| Organization 7. Remarks Date 1-10-62 | S h i k | Vibration Life Shock Overpressure Electrical In Visual inspec | ction for workmanship | | | | |
| Date 1-10-62 | 6, h, j, k, | yibration Life Shock Overpressure Electrical In Visual inspec | etion for workmenship and/or Test Equipment (| Include Est | Imcted Le | | |
| 1-15-62 | 4. S | yibration Life Shock Overpressure Electrical In Visual inspec | etion for workmenship and/or Test Equipment (Vendor | Include Est | Imcted Le | | |
| 1-15-62 | 5T | yibration Life Shock Overpressure Electrical In Visual inspector pectal Facilities est Conducted by Organization equired Test With Organization | etion for workmenship and/or Test Equipment (Vendor | Include Est | Imcted Le | | |
| *submitted monthly thereafter 79 D2-5697-16 Page | 5T. 6. R. | yibration Life Shock Overpressure Electrical In Visual inspector pecial Facilities est Conducted by Organization equired Test With Organization emarks | etion for workmenship and/or Test Equipment (Vendor | Include Est | on | ead Time) | |

| 1.1.3.3 | QUALIFICATION | TECT DI A | <u>.</u> | | |
|---|---------------------------|--------------|---|---------|---------------------------------------|
| Program Element No. | GO IEII ICA IIOI | 4 1631 PLP | MM | | 25 |
| tem lested | sure Switch, Hydrauli | | | | Brief No. |
| Spec. & Dwg. No. (s Used-On Dwg. No. Supplier Supplier's Address Supplier's Part Numbe 2. Schedule Summary |) 10-81033 Accessory : | | ssy - liydi | raulic | |
| Task | Reference | Submittel | Dates | | |
| Total Di | Doc. No. | Schedulo | Actual | Date | |
| Test Plan | | | J. C. | 50,0 | Ву |
| Test Requirements | 20-81033 | | 10.00 | | |
| Test Procedures | 7777 | - | 10-21-61 | | |
| Stort Test | | | | mm | William |
| Complete Test | | | | 4444 | MANALLI L |
| First Status Report* | | | | #### | |
| Final Report | | | | 111111 | 4411111111 |
| 3. Summary of Tests R | ecuired | | | | |
| 4. Special Facilities a | nd/or Test Equipment (In | nclude Estin | nated Lead | l Time) | · · · · · · · · · · · · · · · · · · · |
| | | | | | |
| 5. Test Conducted by: Organization | Vendor | Location | | | · · · · · · · · · · · · · · · · · · · |
| Organization | | Location | 1 | | |
| 6. Required Test Witnes | | Location | | | |
| Organization 6. Required Test Witnes Organization | | | -10-6 | 2 | |

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| Program Element No. | QUALIFICATIO: | N TEST PLA | N | | 27 |
|---|---|--------------|----------|-----------|-----------|
| I. Item lested | | | | | Brief No. |
| Spec. & Dwg. No. (s) Used-On Dwg. No. Supplier Supplier's Address Supplier's Part Number 2. Schedule Summary | Acce | | | - Hydrai | ulic |
| Task | Reference | Submittel | 2 | | |
| | Dcc. No. | Schedule | Dolos | Appro | - |
| Test Plan | | - unccora | ridical. | Date | Ву |
| Test Cognirements | 10-82055 | | 20 10 10 | | |
| Test Procedures | | | 12/3/61 | | |
| Start Test | | | | mm | |
| Complete Toot | | | | 4444 | |
| First Status Report* | | | | 1111111 | 14444111 |
| Final Pagent 3. Summary of Tests Ra | | | | | |
| d) Low Temp. e) High Temp. f) Send and Dust g) Humidity h) Ignition i) Overtemp. j) Vibration k) Drop (shipping | configuration) nd/or Test Equipment (in | aclude Estin | | Pulse Pre | |
| Test Conducted by: Organization | Vendor | Location | 1 | | |
| Required Test Witnes Organization | ses | ı | | | |
| • Remarks | | | | r an | |
| 15-62 | | Date | 1-10-0 | .2 | |
| | | | | | Add Court |

| Program Element No. | QUALIFICATION | N TEST PLA | AN | | 23 |
|--|---|-------------|-----------|-----------|--|
| tom losted | | | | | 12 lef No. |
| Spec. & Dwg. No. (s) Used-On Dwg. No. Supplier Supplier's Address Supplier's Part Number | Acces | | age Assy | - Hydraul | ie |
| 2. Schedule Summary | | | | | |
| · Task | Reference | Submittel | Dates | Appro | wal |
| Test Picn | Doc. No. | Schadula | Actual | Date | By |
| Test Requirements | 2.0 000.0 | | | | - |
| Test Procedures | 10-51057 | 4-25-52 | | | |
| Start Test | mmmmm | 3-000 | | | |
| Complete Test | *************************************** | | | 111111 | mmmm |
| First Status Report* | | | | VIIII | ************************************** |
| Final Report | | | | | |
| 3. Summary of Tests Re | and and | | | 1 | The state of the s |
| workmenship and compliance 4. Special Facilities and | ed/or Test Equipment (in | clude Estin | nated Lea | d Time) | |
| 5Test Conducted by: Organization | Vendor | Location | | | |
| | | 200411011 | | | |
| 6. Required Test Witness Organization | ses | | | | |
| . Remarks | | | | ···· | · . |
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| | • | | | | |
| 15-62 | | Date 1 | -10-6 | ·2· | |

| Program Element No. | WOALIFICA | ATION TEST PL | AN. | | 29 | |
|---|------------|-----------------|-----------|------------------------|---------------------------------------|--|
| tom leated | | | | | Brief No. | |
| Spec. & Dwg. No. (s Used-On Dwg. No. Supplier Supplier's Address Supplier's Part Numbe 2. Schedule Summary | Ac | | ge Assy | - Hydrauli | e | |
| Task | Reference | Submitta | 10 | | | |
| | Doc. No. | Schedule | Actual | Appro | Table 1 | |
| Test Plan | | 30,700010 | 1001 | Date | Ву | |
| Test Requirements | 10-61070 | | | | | |
| Test Procedures | - ACCUM/0 | 4-25-62 | | | | |
| Start Test | VIIIIIIIII | 777 | | | | |
| Complete Test | MHHHHH | 1111 | | VIIII | | 77 |
| First Status Report* | | | | VIIIII | | 111 |
| Final Report | | | | 1111111 | | 77. |
| 3. Summary of Tests R | aculus d | | | | | 4 |
| i) Humidity j) Shock k) Drop l) Over temperate 4. Special Facilities of | | nt (Include Est | Imated Le | ad Time) | | <u>. </u> |
| 5. Test Conducted by: | | | | | | |
| Organization | Vendor | Location | on | | | |
| Required Test Witne Organization | sses | -i | • | | | |
| . Remarks | | | • | | · · · · · · · · · · · · · · · · · · · | |
| | • | | | | | |
| | | 3 | • | | | • |
| | | | • | | | |
| | | Date | 1-10- | <u> </u> | | |
| 15 - 62 *submitted monthly th | | Date 83 | | <u>62</u> 2-5697-16 | Poge | |

| Program Element No. | QUALIFICATION | TEST PLA | N | | 30 |
|--|---|-----------------------|-----------|----------|--|
| I. Item Tested | | | | | Brief No. |
| Spec. & Dwg. No. (Used-On Dwg. No. Supplier Supplier's Address Supplier's Part Numb | | | | | |
| 2. Schedule Summar | у | ···· | · | | |
| Task | Reference Doc. No. | Submittel Schedule | | Appr | oval By |
| Test Plan | This Sheet | | 1-12-0 | | -7 |
| Test Requirements | 10-31111 | 1-10-62 | 4-42-0 | 1 | |
| Test Procedures | | | | | |
| Start Test | VIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII | | | mm | mmm |
| Complete Tast | VIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII | | | WHH | <i>944444</i> |
| First Status Report* | | | | 1///// | MITHIN |
| Final Report | | | | 111111 | THE PARTY OF THE P |
| i) High temper j) Over temper k) Sand and du 4. Special Facilities | ature | Include Est | imated Le | ad Time) | · · · · · · · · · · · · · · · · · · · |
| | | | | • | |
| 5. Test Conducted b | | Locati | on | | |
| Organization 6. Required Test Will Organization | Vendor | Locati | on | | |
| Organization 6. Required Test Wi | Vendor | | | | |
| Organization 6. Required Test Will Organization | Vendor | | on 1-10 | - 62 | |

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| 1.1.3.3 Program Element No. | QUALIFICATION | N TEST PLA | M | | 31 |
|--|---------------------------|------------------------|----------|-----------|--|
| I tem lested | | | | | Brief No. |
| Spec. & Dwg. No. (s Used-On Dwg. No. Supplier Supplier's Address Supplier's Part Numbe 2. Schedule Summary | | and Indica | ator | 33 | |
| Task | Reference | Submittal | Deter | | |
| 5-07524 | Doc. No. | Schodulo | Matural | Appro | The same of the sa |
| Test Plan | | Schodolo | ACTUOI | Date | By |
| Test Requirements | 10-61118 | 61.75 | | | |
| Test Procedures | | 6-4-62 | - | | |
| Start Test | MINIMINI | | | mm | |
| Complete Test | | | _ | 14444 | |
| First Status Report* | | | | -4///// | *************************************** |
| Final Report 3. Summary of Tests R | | | | 111111 | 4////////////////////////////////////// |
| b) Pressure c) ENvironment | - | | | | |
| c) ENvironment | and/or Test Equipment (in | nclude Esti | mated Le | ad Time) | |
| c) ENvironment | and/or Test Equipment (in | nclude Esti | mated Le | ad Time) | |
| c) Elivironment 4. Special Facilities | and/or Test Equipment (is | nclude Esti | mated Le | ad Time) | |
| c) Elivironment 4. Special Facilities o | and/or Test Equipment (in | nclude Esti Locatio | | ad Time) | |
| 4. Special Facilities of the second s | Vendor | | | ad Time) | |
| 4. Special Facilities of Special Facilities | Vendor | | | ad Time) | |
| 4. Special Facilities of a Spe | Vendor | Locatio | n | | 118 is |
| 4. Special Facilities of the Special Facilit | Vendor | Location | n | pec 10-81 | 118 is |

Q.

| 1.1.3.4 Program Element No. | QUALIFICATIO | ON TEST PL | AN | | |
|---|--|-------------------------------------|--------------------------------|--|---|
| | ction Control Power (| | | | Brief No. |
| Spec. & Dwg. No. (Used-On Dwg. No. | n Ramo Wooldridge (T leveland, Ohio er None | | | lty) | |
| Task | Reference | let m | NI EXTLUSIVE | | |
| Turk | Doc. No. | Submitte | | Appro | Angle Control |
| Test Plan | DOC. ING. | Schedule | Actual | Date | By |
| Test Requirements | | | | | |
| Test Procedures | | | | | |
| Start Test | mmmmm | 7. | | | |
| Complete Test | HHHHHHH | 4 | | 1////// | |
| First Status Report* | THUILING THE | 4 | | 1////// | |
| Final Report | | 2-1-03 | | 1111111 | 111111111111111111111111111111111111111 |
| 3. Summary of Tests | Data data | 5-7-02 | | | |
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| | | | | ٠. | |
| Test Conducted by Organization TAPCO | and/or Test Equipment upply and laboratory | Location | for hydro | ogen and ox | cygen. |
| | | We. | reland, C | hio | |
| Required Test With Organization | Boeing projec | t personnel | as nece | ssary | |
| quired is given in occodures will be su | courement Specification cooling and Secondary this document. Detailmitted for Boeing approved with Boeing approved | Power Subsiled test ppproval by al. | ystem." plan, tes TAPCO. | Some of the requirement of the second of the | he testing |
| | | Date | 8-14-6 | 1 | |
| *submitted monthly t | h | 86 | D | 2-5697-16 | Page |

*submitted monthly thereafter 2-6181-0-5 Date 8-14-61

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*submitted monthly thereafter 2-6181-0-5 D2-5697-16

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| Program Element No. | QUALIFICATION | A 1521 PC | IN | | 4 |
|--|--|-----------------------|----------------------|-----------------------------|-----------|
| I. Item Tested | 1 | | | | Brief No. |
| Spec. & Dwg. No. (s Used-On Dwg. No. Supplier Supplier's Address | Boeing Seattle or Same as Associate Co | | | ine and Fi | ttings |
| | | | | | |
| Task | Reference Doc. No. | Submittal Schedule | | Appro | By |
| Test Plan | This Sheet | | | 1000 | -7 |
| Test Requirements | D2-8130 (Tab D) | | | _ | |
| Test Procedures | | | | _ | |
| Start Test | VIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII | | | mm | mm |
| Complete Test | WIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII | | _ | 4///// | |
| Irst Status Report | | | | V////// | HHHHH |
| Final Report B. Summary of Tests F | | 2-1-63 | | VIIIII | |
| | st pressure tests at or | | emperati | | |
| (NOTE: Deta | | be added a | emperat | er date.) | |
| (NOTE: Deta | ailed test plans will | be added a | emperat | er date.) | |
| (NOTE: Deta | ailed test plans will i | be added a | emperat | er date.) | |
| (NOTE: Deta | ailed test plans will i | be added a | emperation at a late | er date.) | |
| (NOTE: Deta | ailed test plans will i | nciude Estin | nated Le | er date.) | |
| NOTE: Deta Special Facilities of the second control of the second | ailed test plans will i | nciude Estin | emperation at a late | er date.) | |
| NOTE: Deta . Special Facilities of the conducted by: Organization . Required Test Witne Organization | ailed test plans will i | Location | nated Le | er date.) | |
| NOTE: Deta NOTE: Deta Special Facilities of the conducted by: Organization Required Test Witner Organization Boeing project Remarks P2-8130 Power Component of | ailed test plans will i | Location To | mated Le | mined Reaction Chore detail | lad |

MANUAL FLIGHT CONFROL

| | | THE REAL PROPERTY OF THE PERSON NAMED IN COLUMN TWO | MACHINE 10 | | Charles of the Control of the Control | |
|---|---|---|---|-------------------------------------|---------------------------------------|--|
| | 2.1.3.5 | QUALIFICATION | TEST PLA | N | | 1 |
| | Program Element No. 1. Item Tested | • | | | | Brief No. |
| | 1. Item rested | Landing Gear Sy | - | | | |
| | Spec. & Dwg. No. (s) | banding dear by | stem | | • | |
| | Used-On Dwg. No. | | | | | • |
| | Supplier | | | | | |
| | Supplier's Address | | | | • | |
| | Supplier's Part Numbe | r | | | | |
| 1 | 2. Schodule Summary | | | | | |
| I | Tosk | | | | | |
| | IUSK | Reference | Submittel | | Appro | val |
| | Test Plan | Doc. No. | Schedula | | Date | Ly |
| | Test Requirements | | 12-27-61 11-15-62 | 12-27-61 | | |
| | Test Procedures | | 1-15-65 | | | 73 |
| - | Start Test | | 2-15-63 | | mm | mmm |
| - | Complete Test | | 3-15-63 | | ****** | <i>}}}}</i> |
| ŀ | First Status Report* | | 3-15-63 | | | ************************************** |
| - | Final Report | | 4-15-63 | | 2000 | and the same |
| | 3. Summary of Tests R | equired anding gear system (in jecting it to the foll | | | | |
| | 3. One extension 3. One extension 4. Repeat "l and been accompliant 4. Special Fcc!!illes on The glider struct landing gear and and surrounding singles system will be in | n - while equipment is simulating normal: n - At room temperature 1 2" above until 10 conshed. Indoor Test Equipment (in the properation of the pill landing gear doors will kin panels will be insected to the gear system will operate the period of the gear system will operate the second of the gear system will operate the second of the gear system will operate the second | being sulfre-entry. after "? asecutive acluda Estimates ots compa l be requitalled. | mated Leadertment thired. The landi | d Time) at suppose nose going gear | rts the nose |
| | Organization | Boeing | Location | n Tula | lip | |
| | 6. Required Test Viline | | | | | |
| | Organization | Mechanism and Pneum | atics 2 | 2-6134-3 | • | .] |
| | 7. Remarks *Due to similarity gear and doors wi system. | between the main gear ll not be operated for | r system a | and the no | ose gear the land | system main . ing gear |
| 1 | 1 C C 2 | | Data | 12-26-61 | • | |
| } | -15-62 *sciencied monthly th 2-6:81-0-5 | creafter | 91 | | -5697-16 . IV | Pcge 78.1 |

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| Program Element No. | QUALIFICA | TION TEST PLA | 'N | | |
|--|--|-----------------------------|---|------------|-----------|
| I tem Tested | <u></u> | | | | Brief No. |
| | Landing Gear Ext | ension Subsys | tem | | |
| Spec. & Dwg. No. (| s) | | - C III | • | |
| Used-On Dwg. No. | • | | | | |
| Supplier | | | | | |
| Supplier's Address | | | | | |
| Supplier's Part Numb | er | | | | |
| 2. Schedule Summar | Y | | | | |
| Task | D. S. | | | | |
| i wak | Reference | Submittal | | Appro | |
| Test Pian | Dcc. No. | Schedule | | Date | By |
| Test Requirements | | 12-27-51 | 12-27-61 | | |
| Test Procedures | | 8-13-62 | | | |
| Start Test | minim | 9-12-62 | | | |
| Complete Test | ~///////////////////////////////////// | 11-12-62 | | | |
| First Status Report* | VIIIIIIIII | 112-12-52 | | | |
| Final Report | | 12-12-62 | | | |
| 3. Summary of Tests | Reguland | 1-12-63 | | | |
| To analise | the components of tessure source. Actu | | / | | |
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| - | | | | - . | |
| Special Facilities | and/or Tost Equipmen | nt (include Esti | mated Lea | d Time) | |
| | and/or Test Equipmer | nt (Include Esti | mated Lea | d Time) | |
| Special Facilities Vendor Facilitie | | nt (include Esti | mated Lea | d Time) | |
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PREUMATICS

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| 1.1.3.5 | QUALIFICATIO | IN TEST PLAN | 1 | ļ. | |
|---|--|--|--|--|---|
| rogram Element No. | | | | | Brief No |
| . Item Tested Lan | ding Gear Extension | - No Bottle | | | |
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| upplier's Part Numbe | or | and the same | *61: | | |
| . Schedule Summan | | | | | |
| ïask | Reference | Submittal | Dates | Appr | oval |
| 1 Mark | Doc. No. | Schedule | | Date | 3y |
| Test Plan | | 3-1-62 | | | + |
| lest Recuirements | 1.0- | 11-13-61 | į. | | |
| Test Procedures | | 11-5-65 | | | |
| Start Test | (////////////////////////////////////// | 6-1-62 | | 1///// | ////// |
| Complete Test | | 23-1-52 | | 1///// | XIII |
| irst Status Report* | | 7-2-62 | | 1///// | |
| Final Report | | 0-3-62 | | | |
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| 4. Special Facilitie Vendor facilit | s and/or Test Equipmen | t (Include Es | timated L | .ead Time) | |
| | oy: Vendor | t (Include Es | | ead Time) | |
| Vendor facilit 5. Test Conducted I Organization | oy: Vendor | , | | .ead Time) | |
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| 1.1.3.5 | QUALIFICATION | TEST PLAN | 4 | | 4 | * |
|--|---|-----------------------|---------------------|-----------|--|------|
| Program Elemant No. | • | | | | Brief No. | |
| I. Item lested | ing Gear Extension - N | L Valve - | (Filot' | s Control | Valve) | |
| Spec. & Dwg. No. (s) Used-On Dwg. No. Supplier Supplier's Address Supplier's Part Number | Delete at the | | commonent level. | will be | qualified | 2 |
| 2. School Summary | | | | | | |
| - Task | Reference Doc. No. | Submittal Schodule | | Appr | oval By | |
| Test Plan | 500,110, | 2-1-50 | 7 1001 | 33,3 | λ.Π.β.C. | |
| Test Requirements | 10- | 11-13-61 | | | | _ |
| Test Procedures | 100 | 4-2-62 | | | | |
| Start Test | VIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII | 5-1-62 | | 771111 | MIIII | 7/// |
| Complete Test | | 3-1-62 | | V///// | WHHH | 444 |
| First Status Report* | | 7-2-62 | | 111111 | WIIII | 1111 |
| Final Report | | 0-3-62 | | 11111 | course of the same | 1111 |
| Performance Test Environmental Te | | •• | 1. | | | |
| Environmental Te | ests | • | | | | |
| Environmental Te | and/or Test Equipment (| Include Es | timated L | ead Time) | | |
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| 4. Special Facilities Vendor facilities 5. Test Conducted by | and/or Test Equipment (es | | | ead Time) | | |
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| 4. Special Facilities Vendor facilities Vendor facilities Organization 6. Required Test With Organization 7. Remarks | and/or Test Equipment (es Vendor nesses Engineering | Locat | ion | | -62. | |

| Spec. & Dwg. No. (s) | Program Element No. | QUALIFICAT | ION TEST PLA | .N | | 5 |
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| Spec. & Dwg. No. (s) Used-On Dwg. No. Supplier's Address Supplier's Part Number Z. Schedule Summery Task Reference Doc. No. Schedule Actual Date By Iest Plan Iest Regularements Test Regularements Test Procedures Schedule Summary Lest Procedures Schedule Summary To qualify all the components of the window heat shield subsystem (pilot's control, gas pressure source, actuator and distribution system) as a complete subsystem. Special Facilities To qualify all the components of the window heat shield subsystem (pilot's control, gas pressure source, actuator and distribution system) as a complete subsystem. Special Facilities Toganization Vendor Required Test Witnesses (1) Organization Mechanisms and Pneumatic Remarks Design Procurement Specification | I. Item Tested | | | | | Brief No. |
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| Test Plan Doc. No. Schedule Actual Date By Test Requirements Test Procedures Start Test Complete Test Complete Test Lington Seport* Test Complete Test Complete Test Lington Seport* To qualify all the components of the window heat shield subsystem (pilot's control, gas pressure source, actuator and distribution system) as a complete subsystem. Special Facilities and/or Test Equipment (Include Estimated Lead Time) Vendor Facilities Test Conducted by: Organization Vendor Required Test Witnesses (1) Organization Mechanisms and Pneumatic Remarks Design Procurement Specification | | · | C. l | | , | |
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| Organization Mechanisms and Pneumatic Remarks Design Procurement Specification Date 12-26-61 | Special Facilities | and/or Test Equipmen | | | system) | as a complete |
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| Date 12-26 61 | • Special Facilities Vendor Facilitie • Test Conducted by Organization • Required Test With | and/or Test Equipments s Vendor | t (include Esti | mated Lea | system) | as a complete |
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| 5-62 *submitted monthly thereafter -6181-0-5 | Vendor Facilities Vendor Facilities Vendor Facilitie Test Conducted by Organization Required Test With Organization Remarks | and/or Test Equipments s Vendor nesses (1) Mechanisms ar | t (include Esti | mated Lea | system) | as a complete |

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Program Element No. I. Item lested

Window Heat Shield Jettison - Actuator

Spec. & Dwg. No. (s)

Used-On Dwg. No.

Supplier

Supplier's Address Supplier's Part Number Deleted - this component will be qu

at the subsyste.. level.

2. Schedule Summary

| Task | Rafarence | Submittel | | Appro | val |
|----------------------|--|-----------|--------|---------------------|--------------|
| T | Doc. No. | Schodula | Actual | Date | By |
| Test Plan | | 2-1-52 | | | |
| Test Requirements | 10- | 10-1-61# | | | |
| Test Procedures | | 3-1-62 | | | |
| Start Test | | 5-1-60 | | mm | mmmm |
| Complete Test | | 5-1-63 | _ | - 44444 | <i>}}}}!</i> |
| First Status Report* | The state of the s | 6-1-62 | _ | - \///// | <i></i> |
| Final Taport | | 8-1-62 | | 111111 | |

3. Summary of Tasts Required

Performance Tests Environmental Tests

4. Special Facilities and/or Test Equipment (Include Estimated Lead Time)

Vendor facilities

5. Test Conducted by: Vendor

Organization

Location

6. Required Test Wilnesses

Organization Engineering

- 7. Remarks
 - * Source Control drawing release data

"submitted monthly thereafter

Date

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| Program Element No. I. Item Tested PITOT EXTENSION (S) Spec. & Dwg. No. (s) Used-On Dwg. No. Supplier Supplier's Address Supplier's Part Number | | | | T | 0 4 6 5 1 |
|--|------------------------------|------------|----------------------------|---------------|-----------|
| PITOT EXTENSION S Spec. & Dwg. No. (s) Used-On Dwg. No. Supplier Supplier's Address Supplier's Part Number | | | | 1 | Brief No. |
| Spec. & Dwg. No. (s) Used-On Dwg. No. Supplier Supplier's Address Supplier's Part Number | | | | | |
| 2. Schedule Summary | Γ | | | • | |
| Task | Reference | Submittal | Datas | Appro | |
| 71.7113K | Doc. No. | Schedula | | Date | Ву |
| Test Plan | | 12-28-1 | Britain Control of Control | 20.0 | -7 |
| Test Requirements | | 8-13-62 | * | | |
| Test Procedures | | 9-12-62 | | | |
| Start Test | | 11-12-62 | | 1111111 | mmm |
| Complete Tost | | 12-12-52 | | <i>\\\\\\</i> | HHHHH |
| First Status Report* | | 12-12-62 | | MAHH | XHHHHH |
| Inal Report | | 1-12-63 | | THE PARTY OF | Millian |
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| 4. Special Facilities of Vendor Facilities | and/or Test Equipment (i | nclude Est | imated Lea | ad Time) | |
| Vendor Facilities . Test Conducted by: Organization | | nciude Est | | nd Time) | |
| Vendor Facilities 7. Test Conducted by: Organization Vendor | | | | ed Time) | |
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| Vendor Facilities 5. Test Conducted by: Organization Vendor 6. Required Test With Organization | esses (1) | Lgcatio | | nd Time) | |
| Vendor Facilities Test Conducted by: Organization Vendor Required Test Without | esses (1) Mechanisms and Pn | Lgcatio | | nd Time) | |
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TANK DESIGN

| 1.1.4.3 | QUALIFICATION | TEST PLA | N | | 1 |
|--|---|----------------------|--|--|--|
| Program Element No. | | | | | Brief No. |
| Spec. & Dwg. No. (s Used-On Dv/g. No. | er | Secondary | Subsyst | em | |
| | | | | | |
| Task | Reference Doc. No. | Schodule Schodule | Company of the Compan | Appro | |
| Test Plan | | 19-31-6 | A COLLEGE OF THE PARTY OF THE P | Duto | Ву |
| Test Requirements | 12-8126 | 11-1-9 | | - | |
| Test Procedures | | 12-31-52 | | - | |
| Start Tost | | 3-1-63 | | mm | viiiiiiiiiii |
| Complete Test | | 4-1-06 | | -\///// | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ |
| First Status Report* | | 7-1-53 | | <i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i> | ************************************** |
| Final Report 3. Summary of Tests R | | 7-1-54 | | 111111 | Action the second |
| 3.2 Mechanical 3.2.1 Vibr 3.2.2 Vibr 3.2.3 Simu 3.3 Non Flight 3.3.1 Free 3.3.2 Stor 3.3.3 Fung 3.3.4 Humi 4. Special Facilities of 4.1 Temperature 4.2 Temperature | ezing Effect rage Life pus Resistance dity Efferm and/or Test Equipment (in - Altitude Chamber wi - Humidity Controlled accel. & Altitude Centr | nclude Esti | | ad Time) | |
| Organization | · · · · · · · · · · · · · · · · · · · | Locatio | n | | |
| 6. Required Test Witne | esses | | | | |
| Organization | Water Wall Group | | | | |
| 7. Remarks | | Date | | 1-10-6 | |
| 1-15-62 *submitted monthly th 2-6181-0-5 | nereafter | 107 | | 2-5697-16 | Pcge 9 2 |

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| Spec. & Dwg. No. (s) Used-On Dwg. No. Supplier Aires Supplier's Address Los A Supplier's Part Number 2. Schedule Summary Task Test Plan Test Requirements Test Procedures Start Test Complete Test First Status Report* Final Report 3. Summary of Tests Required A similated flight to assembled equipment in assembled equipment in the second state of the second secon | Reference Doc. No. 0-20917 Ted est of one hour defor each of the formal oper Malfunction Failed pilo Failed equi Failed APU Failed hydre | Submittal Schedule 6-1-62 11-1-62 | Dates Actual 4-14-61 all be conditions appropriate themselves | Appro Date | By E.H. Donne |
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| Hazardous Test Area | r Test Equipment (1 | | - | | • |
| Hazardous Test Area | r Test Equipment (1 | | | • | • |
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| Required Test Witnesses Organization | One Boeing | represent | • | | • |
| Remarks | | · · · · · · · · · · · · · · · · · · · | | | |
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| ***** | | Date | 8-14-6 | 5697-16 | |

| 1.1.4.4 | QUALIFICATI | ION TEST PLAN | | 2 |
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| Program Element No. | • | | | Brief No. |
| | neck Valve, Glycol- | -Water | | |
| Spec. & Dwg. No. (s) Used-On Dwg. No. Supplier Supplier's Address Supplier's Part Number | r | | | |
| 2. Schedule Summary | | | | |
| ,Task: | lenkerencia | Summira Laces | ACONT | cover. |
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| Test Plan | | | - | |
| Test Regulrements | + 10-31052 | 1.2-1.3 | | |
| Test Procedures | HAT MANY W | 2012/1 | | |
| Start Test | THITTINITY TO | 5-15-62 | 771111 | MIMIM |
| Complete Test | 4/1//////////////////////////////////// | 7-15-0 | -1///// | HHHHH |
| First Status Report* | | 6-15-62 | -111111 | |
| | | | 111111 | MILLIUM TO |
| Final Report 3. Summary of Tests R | | 8-15-60 | | |
| Vibration Shock | CANCILLED - | Incorporated into | | 5-5 |
| Acceleration | | · | | |
| Vibration Shock Acceleration Performance 4. Special Facilities | and/or Test Equipmen | | | |
| Vibration Shock Acceleration Performance | and/or Test Equipmen | | | |
| Vibration Shock Acceleration Performance 4. Special Facilities 5. Test Conducted by | and/or Test Equipment | nt (Include Estimated | | |
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| 1.3.14.14 | 1 | QUALIF | FICATION | TEST PLA | N | | 7 |
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| I. Item i | lement No. | | | | | | Brief No. |
| 1. Irem (| | ICE PAREL | | | | | |
| Used-On Supplier Supplier's Supplier's | Dwg. No. (s) Dwg. No. Address Part Number | 10-81028 | | | | | |
| 2. Sched | ule Summary | | | | - | | • |
|)÷ | Task | Reference Doc. No. | | Submittal Schedule | | Appr | oval By |
| Tost Plan | | 500, 130, | | Delicacio | - | Duig | 97 |
| Test Recui | remants | 10-8103 [| _ | | _ | - | |
| Tost Proce | | TO-070/3 | 1 > | | | | |
| Stert Test | | mm | mm | | | | |
| Complete | | 44444 | 44444 | | | 1///// | |
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| First Statu | 2 923011 | | | | | VIIIII | |
| Final Repo | ort ary of Tests Re | | | | | 1 | |
| Inter | nal Pressure | mal Lookage : Working, 1 | Proof, Bu | rst | • | | |
| Vibrat Shock Accele Perfor | nal Pressure tion eration rmance | mal Leakage : Working, 1 | | | imated Le | ead Time) | |
| Vibrat Shock Accele Perfor | nal Pressure tion eration rmance | : Working, | | | imated Le | ead Time) | |
| Intern Vibrat Shock Accele Perfor | nal Pressure tion eration rmance | : Working, | | | imated Le | ead Time) | |
| Vibrat Shock Accels Perfor | conducted by: | : Working,) | | nclude Est | 1-2-20-11-1-2-2 | ead Time) | |
| Vibrat Shock Accels Perfor | nal Pressure tion eration mance | : Working, 1 | | | 1-2-20-11-1-2-2 | ead Time) | |
| Vibrat Shock Accele Perfor 5. Test C | Conducted by: Drganization red Test Witner Drganization | Working, I | | nclude Est | 1-2-20-11-1-2-2 | ead Time) | |
| Vibrat Shock Accels Perfor 4. Special | Conducted by: Drganization red Test Witner Drganization | Working, I | | nclude Est | 1-2-20-11-1-2-2 | ead Time) | |
| Vibrat Shock Accele Perfor 5. Test C | Conducted by: Diganization red Test Witner Diganization rental Contiks | Working, I | vipment (i | nciude Est | 1-2-20-11-1-2-2 | ead Time) | |
| Vibrat Shock Accele Perfor 5. Test C | Conducted by: Diganization red Test Witner Diganization rental Contiks | Vendor esses | vipment (i | Location 1962. | 1-2-20-11-1-2-2 | | |

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| | | TION TEST PLA | N | | 4 | |
|---|--|---|------------|-----------|-------------|-----|
| Program Element No. | | | | 8 | rief No. | |
| I. Item Tested | Injector Unit | - Mitrogen | | | | |
| Same & David No. /- | | | | • | | |
| Spec. & Dwg. No. (s Used-On Dwg. No. | 10-31050 | | | | | |
| Supplier | 10-01000 | | | | | |
| Supplier's Address | | | | | | |
| Supplier's Part Number | 32 | | | | | |
| 2. Schedule Summary | / | | | | | |
| *** | | 141 | | | | t |
| Tosk | Reference | Submittel | | Appro | | j' |
| Tast Blan | Doc. No. | Schodula | Actual | Date | Бу | 111 |
| Test Plan | | 2-72 | | | | 13 |
| Test Requirements | 10-61030 | 9-25-61 | 0-25-61 | 0-25-61 | E. P. Deers | |
| Test Procedures | mmmm | 3-22 | | Section 1 | | 7 |
| Start Test | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 19-15-62 | | | | |
| Complate Tast | VIIIIIIIIII | 11/47-15-62 | | 1111111 | William | |
| First Status Report* | | 5-15-52 | | 11/1//// | | |
| Final Report 3. Summary of Tests I | | 3-15-52 | | | | |
| Performance Vibration Acceleration Shock | | | | | | , |
| Vibration Acceleration | | | | | | |
| Vibration Acceleration | • | | | | | |
| Vibration Acceleration Shock | and/or Test Equipme | ent (Include Est | Imated Le | ad Time) | | |
| Vibration Acceleration Shock | and/or Test Equipme | nt (Include Est | Imated Lea | nd Time) | | |
| Vibration Acceleration Shock 4. Special Facilities | /2 | int (Include Est | | ad Time) | | |
| Vibration Acceleration Shock 4. Special Facilities 5. Test Conducted by Organization | /2 | | | ad Time) | | |
| Vibration Acceleration Shock 4. Special Facilities 5. Test Conducted by Organization | /2 nesses | | | ad Time) | | |
| Vibration Acceleration Shock 4. Special Facilities 5. Test Conducted by Organization 6. Required Test V/Its Organization | /2 nesses | | | ad Time) | | |
| Vibration Acceleration Shock 4. Special Facilities 5. Test Conducted by Organization 6. Required Test V/Its Organization 7. Remarks | /2 nesses | Location | | nd Time) | | |
| Vibration Acceleration Shock 4. Special Facilities 5. Test Conducted by Organization 6. Required Test V/Its Organization 7. Remarks Vendor to | nesses | Location | | 1-3- | 6.2 | |
| Vibration Acceleration Shock 4. Special Facilities 5. Test Conducted by Organization 6. Required Test V/Its Organization 7. Remarks | nesses to be selected appr | Location to the second | on | | Pega | |

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CONFIGURATIONS

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Vol. IV

WIRING DEV. & DIAG.

| Program Element No. | | ON TEST PLA | N | | |
|--|--|-----------------------|----------|----------|-----------|
| I. Item Tested | | | | | Brief No. |
| Spec. & Dwg. No. (Used-On Dwg. No. Supplier Supplier's Address | Speed and Nich Munbe s) Anticipated to | | | em _ | |
| Supplier's Part Numb 2. Schedule Summar | er Y | | | | • |
| Tack | Raforenco Doc. No. | Submittel Schedula | | Appe | - |
| Test Plen | | - Chicago | Petroi | Date | Sy |
| Test Regulrements | 19-00055 T | + | _ | | |
| Test Procedures | 184,000 | > | | - | |
| Start Test | VIIIIIIIIIII | 70 | | | |
| Complete Test | - (//////////////////////////////////// | 8 | | VIIIII | |
| First Status Recort* | The state of the s | 4 | | VIIII | OM//// |
| Final Report | | | | VIIII | N//// |
| 3. Summary of Tests | 2- 1-1 | 3-12.6 | | | |
| | | •• | | | |
| | | | | | |
| | and/or Test Equipment | (Include Esti | mated Le | cd Time) | |
| Special Facilities None | and/or Test Equipment | (Include Esti | mated Le | cd Time) | |
| None | | (Include Esti | | cd Time) | |
| None Test Conducted by Organization | nessas | | | cd Time) | |
| None Test Conducted by Organization Required Test With Organization Remarks | nessas | | | cd Time) | |

| 1.1.6.5 | Olla Lanco Lanco | A second | -Alteria | | - |
|--|--|--------------|-----------|----------|--|
| Program Element No | QUALIFICATION | N TEST PLA | N | | lı. |
| Acres Contract | apped Time Indicator | | | | Brief No. |
| Spec. & Dwg. No. (Used-On Dwg. No. Supplier Supplier's Address Supplier's Part Numb 2. Schedule Summar | (s) Anticipated to be | off-the-s | helf ite | | |
| | | | | | |
| Task | Reference | Submittel | Dates | Appro | - I |
| | Doc. No. | Schodula | Vatural | Date | Contract of the Contract of th |
| Inst Flan | | 1 | 40.001 | Date | Ву |
| Test Regularments | P2-50055 1 | | - | _ | |
| Test Procedures | 1 | _ | | | |
| Start Test | VIIIIIIIIIIIIIII | _ | | | |
| Complete Test | Committee of the Commit | | | 1111111 | |
| First Status Report* | | _ | | 9////// | |
| Final Report | | - | | 11///// | |
| 3. Summary of Tests | Boundary & | 3-22-40 | | | 1 |
| | | | | | |
| | and/or Test Equipment (in | noludo Estin | nated Lea | nd Time) | |
| Special Facilities None None Test Conducted by Organization | and/or Test Equipment (in | noludo Estin | 404 | nd Time) | |
| Special Facilities None None Test Conducted by | and/or Test Equipment (in | | 404 | nd Time) | |
| Special Facilities None Test Conducted by Organization Required Test With Ossanization Remarks | and/or Test Equipment (in | | 404 | nd Time) | |
| Special Facilities None Test Conducted by Organization Required Test With Ossanization Remarks | esses | Location | -11-6 | | Pegs |

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*submitted monthly thereafter

CONTROLS & DISPLAYS

| Program Element No. | QUALIFICATION | . 1401157 | •• • | Ì | Brief No. |
|---|--------------------------|------------------------|---------------------------------------|----------|---------------------------------------|
| incom Appeted | oin Pressure Cauge | | | 1 | ottet 140. |
| Spec. & Dwg. No. (Used-On Dwg. No. Supplier | s) Anticinated to h | e off-the | -chelf it | cem | |
| Supplier's Address | | | | | |
| Supplier's Part Numb 2. Schedule Summar | or v | | · · · · · · · · · · · · · · · · · · · | | |
| | | | | | |
| . Task | Reference | Submittal | Dates | Appro | val |
| | Doc. No. | Schedule | | Date | dy |
| Inst Flon | | | | | - |
| Tost Reculrements | 19-90055 | | | | |
| Test Procedures | 7777777 | | | | |
| Start Test | | | | VIIIII | mmm |
| Complete Test | | | | Milli | THINH |
| First Status Report | | | | 1111111 | Millin |
| Final Report | Do water d | 3-20. | | | T |
| 3. Summary of Tests | עכלחווסם | - | |) | |
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| 4. Special Eggilistee | and/or Yest Equipment (| | | , | |
| 4. Special Facilities | and/or Test Equipment (I | neludo Ēsti | imated Le | cd ïlme) | , |
| 4. Special Facilities None | and/or Tost Equipment (I | noludo Esti | imated Le | ed Time) | |
| | and/or Test Equipment (I | noludo Esti | imated Le | ed Time) | · · · · · · · · · · · · · · · · · · · |
| | and/or Tost Equipment (I | neludo Esti | imated Le | | |
| None | | neludo Esti | | | |
| None None None | /s | | • | | |
| None | /s | noludo Esti Locatio | • | | |
| None None None None None None None | /: /: | | • | | |
| None Test Conducted by Organization Required Test With | nossos | | • | | |
| None None None None None None None | nossos | | • | | |
| None Test Conducted by Organization Required Test With Organization | nossos | | • | | |
| None 5. Test Conducted by Organization 6. Required Test With Organization 7. Remarks | nossos | | • | | |
| None 5. Test Conducted by Organization 6. Required Test With Organization 7. Remarks | nossos | | • | | |
| None 5. Test Conducted by Organization 6. Required Test With Organization 7. Remarks | nossos | | • | | |
| None 5. Test Conducted by Organization 6. Required Test With Organization 7. Remarks | nossos | | • | | |
| None 5. Test Conducted by Organization 6. Required Test With Organization 7. Remarks | nossos | Location | • | | |
| None 5. Test Conducted by Organization 6. Required Test With Organization 7. Remarks | nesses | Location | i-11-6 | | Pogo |

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Vol. 1V

| 1.1.7.2 | QUALIFICAT: | ON TEST PLAN | 4 | | 1 |
|--|---|--------------------------------------|------------|-----------|---------------------------------------|
| Program Element No. | | | | B | riof No. |
| nem reside | TICH SIMT AND SURVI | TVIL SISTEM | | : | |
| Spec. & Dwg. No. (s) Used-On Ewg. No. | 10-81000 (Sour | ree Centrol D | rewing) | ٠ | |
| Supplier Supplier's Address | Mobor Aircraft Durbani, Colid | Cormin. | | | |
| Supplier's Pert Numbe | | 4 - 600 | | | |
| 2. Scheeu. Summery | | | | | |
| · Task | Rafarence | Submittei | Cates | Appro | val |
| | Dos. No. | Sensculo | | Date | 1 by |
| Test Flan | | | 5-24-6 | | |
| Test Regulgements | 10-81000 | والمناوات والمراجع والمراجع والمراجع | 6-5-61 | | |
| Test Pronoduras | | 2-7-62 | | | |
| Start Test | 7////////////////////////////////////// | 11/1/2000 | i | 1111111 | |
| Completa Test | Willing S | 111 | <u></u> | | |
| First Stehus Reporter | | 7-15-02 | | | |
| Final Report | | 6-30-53 | | 1111111 | |
| 4. Special Facilities | cno/or Test Equipma | nt (Includo Es | imated Lea | Timal | |
| | 8 | • | | 26 1:mc/ | <u></u> |
| | | | • | ia time) | · · · · · · · · · · · · · · · · · · · |
| 5. Test Conducted by Organization Meloar Aire | | . Locat | ion Burt | enk, Cali | formia |
| Organization | thessas | . Locat | ion Burt | | formia |
| Organization Weber Aire 6. Required Yest With Organization | thessas | Locat | ion Buri | | fornia |
| Organization Weber Aire 6. Required Test Wit Organization Bosing Enginee | thessas | | ion Buri | enk, Cali | formia |

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| | 1.1.9.2 Program Element No. | QUALIFICATION | N TEST PLAN | ı | | Ą |
|------------|---|--|----------------------------|------------|-------------------|--------------|
| | I. Item Testad | | | | | Brief No. |
| | | STRUCTURAL SEPARATION | PASTERIES (9 | מדטדוי פור | 37027 | |
| | Spec. & Dwg. No. (s Used-On Dwg. No. Supplier Supplier's Address Supplier's Part Numbe 2. Schedule Summary | The que in Test | أنامر يبعبون يستران ويتأمل | of thi | c item is | now included |
| | | | | | | |
| | Task | Reference Doc. No. | Submittal D | ates | Appro | val |
| | Test Plan | DUC. 140. | Schedule A | ctual | Date | Ву |
| | Test Requirements | | | | | |
| | Test Procedures | | | | | |
| | Start Test | mmmmm | | | | |
| ö | Complete Test | <i>/////////////////////////////////////</i> | 1 Hey 62 | | 1111111 | |
| Transition | First Status Report* | | 1 4:3 52 | | VIIII | |
| ns. | Final Report | | | | VIIII | |
| Z. | 3. Summary of Tests R | equired | | | 100 | |
| - | Vibration Temperature-Altit 4. Special Facilities of | | Clude Fest | And I | 1 70 | |
| | 5. Test Conducted by: Organization | Subcontractor | Location | , | | <u>.</u> |
| - | 6. Required Test Witnes Organization | ses The Boeing Compa | ny | | | - |
| | 7. Remarks | | | | | |
| | -15 - 73 | | Date 8-1 | .0-51 | | |
| | -15-62 *submitted monthly the 2-6101-0-5 | reafter | 154 | D2- | -5697-16 1. 1V | Page |

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*submitted monthly thereafter

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| 1.1.9.2 | QUALIFICA | TION TEST PLAN | 7 | | 7 |
|---|--|----------------------|----------|----------|-----------|
| Program Element No. | • | | | | Brief No. |
| Spec. & Dwg. No. (Used-On Dwg. No. (Supplier Supplier's Address Supplier's Part Numb 2. Schedule Summan | per | | | | |
| | | | | | |
| · Task | Reference | Submittal | | Appro | |
| Test Plan | Doc. No. | Schedule | Actual | Date | by |
| Test Requirements | 10 01010 | 6-6-52 | | - | |
| Test Procedures | 10-61040 | 3-22-62 | | | |
| Start Test | VIIIIIIII | 7-22-52 | | mm | A COURT |
| Complete Test | WHHHHH | 9-22-52 | | 111111 | 2441111 |
| Irst Status Report* | | (11-22-12 | | -4444 | |
| Inal Report | | 19-09-02 | | 111111 | |
| . Summary of Tests | Po-vilno-l | 12-22-52 | | | |
| | ental Tests | | | | |
| | | ent (include Esti | mated La | cd Time) | |
| Vendor: Test Conducted b | s and/or Test Equipm facilities | ent (include Estin | | ed Time) | |
| Vendor: Organization Required Test Will Organization | s and/or Test Equipm facilities y: n Vendor | | | cd Time) | |
| Vendor: Test Conducted b Organization Required Test Will Organization | s and/or Test Equipm facilities by: n Vendor | Locatio | a | | |
| Vendor: 5. Test Conducted by Organization Organization Organization Organization Included Test Williams Included | s and/or Test Equipm facilities y: n Vendor thesses n Engineering | Location and Glider, | a | ion | |
| Vendor: 5. Test Conducted b Organization 6. Required Test Will Organization 7. Remarks Include * Source | s and/or Test Equipm facilities y: n Vendor hosses n Engineering des Booster/Transi control drawing re | Location and Glider, | ransi | ion | |
| Vendor: 5. Test Conducted by Organization Organization Organization Organization Included Test Williams Included | s and/or Test Equipm facilities y: n Vendor hosses n Engineering des Booster/Transi control drawing re | Location and Glider, | ransi | ion | |

| 1.1.9.2 | QUALIFICATI | ON TEST PLAI | V | - 1 | 3 |
|--|--|------------------|----------|----------------------|---|
| Program Element No | | | | | Brief No. |
| I. Item Tested G: | lider/Transition Thru | ster Assembl | Y | | |
| Spec. & Dwg. No. (Used-On Dwg. No. Supplier Supplier's Address Supplier's Part Numb 2. Schedule Summar | Der | | | • | |
| Took | Reference | Submittel | Date | 1 1 | |
| 1,500 | Doc. No. | Schedule | | Date | grito parameter and a state of the state of |
| Test Plen | | 9-17-62 | | Date | by . |
| Test Regulrements | 102 | 7-2-52 0 | _ | - | |
| Test Procedures | | 11-2-52 | | - | |
| Start Test | VIIIIIIIIIIIIIII | 77 | | mm | |
| Complete Test | VIIIIIIIIIII | 1-2-63 | | XIIIIII | |
| First Status Report* | | 3-2-63 | | VIIIII | 4444111 |
| Final Report | | 2-2-63 4-2-63 | | 1111111 | |
| | | | / | | |
| | Tests | | | | |
| | Tests | | | | |
| | Tests | | | | |
| 4. Special Facilities Vendor facilit | and/or Test Equipment | (includa Esti | mated Le | ad Time) | |
| | and/or Test Equipment | (include Estin | | ad Time) | |
| Vendor facilit | s and/or Test Equipment Lies Y: Vendor | | | od Time) | |
| Vendor facility 5. Test Conducted by Organization 6. Required Test With Organization | s and/or Test Equipment sies y: Nendor | Locatio | | ad Time) | |
| Vendor facility 5. Test Conducted by Organization 6. Required Test With Organization | y: No Vendor Test Equipment The state of t | Locatio | | | |
| Vendor facility Test Conducted by Organization Required Test With Organization | y: Vendor nesses Engineering ce control drawing re | Locatio | n | 12-21- 12-5697-16 | C/ Pego |

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Vol. IV

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| 1.2.0 | QUALIFICATI | ON TEST PLAI | N | | 7 |
|--|--|-------------------------------|------------|-----------|------------------|
| Program Element No. | | | | | Brief No. |
| Spec. & Dwg. No. (Used-On Dwg. No. Supplier | he libriin Company eliimore, Karyland | | | | |
| Task | Reference | Submittal | Dotos | Appro | wal |
| (-1 N | Doc. No. | Schedule | Actual | Date | By |
| lest Plan | | | | | |
| est Reculrements | | | | | |
| est Procedures | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | |
| start Test | VIIIIIIIII | | | V////// | |
| Complate Test | VIIIIIIIIIII | | | VIIIII | |
| Irst Status Report | | | | VIIIII | |
| Inal Report Summary of Tests | | | | | Carrier Contract |
| | | • | | | |
| Special Facilities | s and/or Test Equipment | t (include Est) | Imated Le | ead Time) | |
| Special Facilities . Test Conducted b | | t (înclude Esti | Imated Le | ead Time) | |
| | y: | t (înclude Esti Locatio | • | ead Time) | |
| Test Conducted b | n Inesses | | • | ead Time) | |
| o. Test Conducted b Organization organization Remarks | n Inesses | n Company, is Test plannin | on conduct | ot be add | |
| o. Test Conducted b Organization organization Remarks | inesses on contractor, The Earti | Location Location | on conduct | | |

1.3.1.2 QUALIFICATION TEST PLAN 1 Program Element No. Brief No. I. Item Tested Flight Control Subsystem Electronics (FCSE) Spec. & Dwg. No. (s) 12-7483-0, 12-7483-1, 12-7483-2 Used-On Dwg. No. 25-80221 Minneapolis-Honeywell Regulator Co. Supplier's Address 2600 Ridgway Road, Minneapolis 40, Minnesota Supplier's Part Number YG 368 AL FCSE 2. Schedule Summary Task Reference Submittal Dates Approval Doc. No. Schedule Actual Test Plan N-H /aro Report(##) 7-13-61 7-15-61 Test Requirements M-H Acro Bowert (**) 2-1-62 Test Procedures 15-H Agro Remort(#0 Start Test Complete Test First Status Report* Final Report 4-1-53 3. Summary of Tests Required A. Environmental - (Temp., Explosion, Pressure, Vibration, Acceleration, B. Functional -(1) Open Loop Tests (a) Sensors Colmuter Model Selector (2) Closed Loop Test - System (Simulate the airplane) C. Radio Interférence (RFI) 4. Special Facilities and/or Test Equipment (Include Estimated Lead Time) FCSE Bench Level Test Equipment or Equivalent, Special purpose (adapted to FCSE Bench Tester) Electronic Test Equipment, Environmental Test Facilities, 5. .Test Conducted by: Organization Location Minneapolis, Minnesota Minneapolis-Moneywell Reg. Co. 6. Required Test Witnesses Organization Booing - Engineering (2-6163) and Pateriol (2-1452) Quality Control (2-402) 7. Remarks The Qualification Test Plans submitted by the subcontractor will be analyzed and approved by the Guidence and Flight Control Unit. The operational capability of the New will be were lied on the operational mockap. R Date .. 12-19-61 1-15-62 D2-5697-16 *submitted monthly thereafter 161 Vol. 1V

| rogram Element No. Item Tested Enerth | | | 1 | |
|--|--|--|----------------|------------------------|
| Liert | | | | Brief No. |
| Jsed-On Dwg. No. upplier Man | capolis-Nonogwell (1 3. Nighway jly, 8%. M | AH) Military Produ | ers Group A | |
| | | 1 | | |
| · Task | Reference | Submitted Dates | Appro | |
| est Plan | Doc. No. | Schooula Actual | Date | дy |
| | | 2-15- 2 | | |
| est Requirements | | | | |
| est Procedures | mmmm | | | 1 |
| tart Test | <i>\}</i> | | V////// | X/////// |
| Complete Test | | | | XIIIIII |
| irst Status Report* | | | | XIIIII |
| Inal Report B. Summary of Tests | | | | 1 |
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| Special Egatitutes | and/or Test Fault-west | (Implicate Easternand | and T!\ | |
| . Special Facilities i. Test Conducted by Organization | | Location | ead Time) | rida |
| o. Test Conducted by Organization Minneapolis-Horos With Organization | nogwell | Location | • | rica |
| Organization Organization Organization Organization Organization The Decking Compa Remarks | nogwell | Location St. Peter polis-Honeywell, which will not be adde | coburg, Flo | enclicien |
| Organization Organization Organization Organization Organization The Decking Compa Remarks | noywell nesses any - Socttle | Location St. Peter | coburg, Flo | gnolidion doormant. |

| | 1.3.5.1 | QUALIFICATIO | N TEST PLA | N | | 1 | |
|----------|------------------------------------|--|---------------------------------------|--|-----------|--|----|
| | Program Element No. | | | | В | rief No. | |
| | 1. Irem lested E | nergy Kangement Displ | ay | | | ~ · · · · · · · · · · · · · · · · · · · | |
| | Spec. & Dwg. No. (s) | 10-20925 | | | | | |
| | Used-On Dwg. No. | 10-20925 | | | | | |
| 0 | Supplier | Company Paradalan | | · / | | | |
| | Supplier's Address | Consul Problem : Placerismilla, No | r Montone re | ic (LLT di | wision) | | |
| | Supplier's Part Number | | to the man | | | | |
| | 2. Schedule Summary | | | · —, —, —, —, —, —, —, —, —, —, —, —, —, | | | |
| | | | | | | | |
| | Tark | Reference | Submittal | Dotes | Approv | ral | - |
| • | 3.23 | Doc. No. | Schedule | | Date | Ву | - |
| | Test Plan (2-1.) | 10 C CT 1 Vol. 78 | 5-18-5 | 11-11-31 | 2-25-3 | | -2 |
| | Test Requirements | 10-20925 | 6-25-01 | 5-25-52 | 4-14-11 | 7. 7. 73.30 | _ |
| INST | Test Procedures | | 11.5 | | 3 14 50 | 3.750 | |
| Ä | Start Test | <i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i> | 2-35-60 | V | mm | mmm | 7 |
| E | Complete Test | | 9-1-2 | | | ///////////////////////////////////// | 4 |
| NO DE | First Status Report | | 3-25-50 | - | | ///////////////////////////////////// | 4 |
| AIRBORNE | Final Report | | 10-1- 62 | | minin | minimi | 4 |
| 7 | 3. Summary of Tests R | equired | | , | | | _ |
| | 1. Hen-environ | anima trata (- handani | | | | | |
| | metric Proces | entel tests (standard ure, Relative Annidia | room cond | itions), | including | Torp, Bara- | |
| | Z. Mivironianna | 4-000rational tests i | سدر إدراده إدرادا | 77: 30 month of man | C'anala | | • |
| | 2010 (11111) | · Latina Gald I Day To Day | | 001 | | _ _ | • |
| | 3. Environmental | l tests, including Te | ep, Relati | ve Auridi | ty and Vi | brotsi on | |
| | | | | | | | |
| | Tratmmon | test requirements are | included | in docume | nt. D2-8: | 140, "Flight | |
| | 113 01 (11.011 | ts Concrel Specificat | ion. | | | | • |
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| | • | | | | | | • |
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| | 4. Special Facilities | and/or Test Equipment (| include Esti | mated Lea | d Time) | | • |
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| | l'one. | | | | | | |
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| | 5 7 . C 1 . II | | i. | | | | |
| | 5. Test Conducted by: | Compred Procession | | | | | |
| | Organization | | Locatio | n Pleas | mtville, | Herr York | |
| | | | | | | | |
| | 6. Required Test Witne | esses | · · · · · · · · · · · · · · · · · · · | | | | _ |
| | Organization | | in Crewn) | | | | |
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| ٠ | 7. Remarks | | 0 | | | | |
| | E3 | ing negotiated per M | 2-00350. | | | | |
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| 148 | 1-15-62 | | Date | | 12-7 | 0-11 | _ |
| , , 0 | 1-15-62 | harastas | | D2 | 2-5697-16 | Page | |
| | *submitted monthly t 2-6181-6-5 | nercarter | 164 | | ol. 1V | H Z 18 | |
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D2-5697-16

Vol. IV

QUALIFICATION TEST PLAN

1

AIRBORNE DIST

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1.3.5.2

Program Element No.

-15-62

2-6|8|-0-5

*submitted monthly thereafter

AIRBORNE INST

| | 1.3.5.4 Program Element No. | QUALIFICATION | TEST PLA | N | R | 1 rief No. |
|---|---|--|-----------------------|------------------------------------|---------------------|--|
| | | e Slip Indicator | | | | Her INO. |
| | Spec. & Dwg. No. (s) Used-On Dwg. No. Supplier Supplier's Address Supplier's Part Numbe | Nollsman Long Island, New | York | | • | |
| 1 | 2. Schedule Summary | , Year of the | | | | |
| | Task | Reference Doc. No. | Submittal Schedule | Charles and Control of the Control | Approv | al By |
| 1 | Test Plan (Pal.) | 13-557-16, Vol. IV | 8/14/61 | | | 5-80 |
| | Test Requirements | 10-31015 | - | | 8/14/51 | 2. D. Agrolan |
| 1 | Test Procedures | TG+WCC3 | 1/20/01 | 1/29/91 | 1/20/01 | P. D. Dymalds |
| [| Start Test | V///////////////////////////////////// | 3-15-02 | 0 | mm | mmmm |
| [| Complete Tost | | 1-1-3 | | /////// | ///////////////////////////////////// |
| 1 | First Status Report* | | 4-15-32 | | VIIIIIII | |
| I | Final Report | | 10-1-62 | 7 | THE PERSON NAMED IN | minimin. |
| | 3. Summary of Tests I | Required | | 1 | | |
| | Zero Gravity Note: Detailed Instrument 4. Special Facilities | el-operational tests in y, High and Low Temp. a test requirements are ats General Specificati and/or Test Equipment (1 | included | in docume | ent D2-814 | |
| | 5. Test Conducted by Organization | | Locati | | Island, | New York |
| | 6. Required Test With Organization | | gn Group) | | | , |
| | 7. Remarks | Being negotiated per I | 02-80396 | | | |
| | | | Date | • • | 12-20 | -61 |
| | 1-15-62 *submitted monthly 2-6181-0-5 | thereafter | 167 | | 2-5697-16 ol. 1V | Page (C.) |

1.3.5.5. QUALIFICATION TEST PLAN Program Element No. Brief No. I. Item lested Angle of Attack: Indicator Spec. & Dwg. No. (s) 10-20930 Used-On Dwg. No. Supplier Kollsman Supplier's Address Long Island, New York

Supplier's Part Number 2. Schedule Summary

| Task | Reference Submittel De | | Dales | Appro | vol |
|----------------------|--|----------|---------|--|---|
| | Doc. No. | Schodula | Actual | Data | dy |
| Test Plan (A-1) | DR-5577-15. Vol. IV | 8/14/51 | 8/14/31 | 8/10/01 | N.D. Hornolds |
| Test Requirements | 10-20530 | 7/20/61 | 7/20/51 | 7/25/01 | 2. 2. 42710143 |
| Test Procedures | | 1 | | I STATE OF THE PARTY OF THE PAR | N. S. A. S. A. P. S. G. W. S. |
| Stort Test | V///////////////////////////////////// | 3,35,60 | 5 | 7777777 | mmmm |
| Complete Test | VIIIIIIIIIIIII | 0- 1-50 | | | ************************************** |
| First Status Report* | | h-15-62 | | 1111111 | |
| Final Report | | 20 2 50 | | THE STATE OF THE S | anninininininininininininininininininin |

3. Summary of Tests Recuired

- 1. Non-environmental tests (standard room conditions) including Temp, Borametric Pressure, Relative Municity, and Cleanliness.
- 2. Environmental tests including Temp, Relative Humidity, and Vibration.
- 3. Environmental-operational tests including, Vibration, Shock, Acceleration, Zero Gravity, High and Low Temp. and Temp Shock.

Detailed test requirements are included in document D2-8140, "Flight Instruments General Specification".

4. Special Facilities and/or Test Equipment (include Estimated Lead Time)

None

5. Test Conducted by:

Organization Vendor Tested Location

Kollsman

Long Island, New York

6. Required Test Witnesses

2-5167 (Boeing Design Group) Organization

7. Remarks



Doing Negotiated per D2-80396.

| • | Date - | 12-20-1 | 5>1 |
|--|--------|-----------------------|---------|
| 1-15-62 *submitted monthly thereafter 2-6181-0-5 | 168 | D2-5697-16 Vol. 1V | Page 52 |

| Program Element No. I. Item Tested Altitude Indicator Spec. & Dwg. No. (s) 10-20928 Used-On Dwg. No. Supplier Supplier's Address Huntington Station, New York: Supplier's Part Number 2. Schedule Summary Task Reference Submittal Dates Approval Doc. No. Test Plan (Prof) 92-3097-10, 701. 17 | | | And a real file of the Annual Control of the | | | | |
|--|----|---|--|-------------------------------|--|-----------|----------------|
| Spec. & Dwg. No. (s) 10-20928 Used-On Dwg. No. Supplier's Address Supplier's Address Supplier's Address Supplier's Part Number 2. Schedule Summary Task Reference Doc. No. Schedule Fetrol Doc. No. Schedule Fetrol Dot. No. Schedule Schedule Dot. No. Schedule Dot. No. Schedule Dot. No. Schedule D | | 1.3.5.6 | QUALIFICATION | TEST PLA | Ν | | 1 |
| Spec. & Dwg. No. (s) 10-20928 Used-On Dwg. No. Supplier Supplier's Address Supplier's Address Supplier's Address Supplier's Part Number 2. Schedule Summary Task Reference Doc. No. Schedule Facture Test Plan (Prol) Use-Doyl-Toy, 101. 12 / 17 / 17 / 17 / 18 / 18 | | | | | | 12 | Brief No. |
| Used-On Dwg. No. Supplier's Address Supplier's Address Supplier's Part Number 2. Schedule Summary Task Reference Doc. No. Schedule Actual Dote Sy Test Plan. (Port) De-5071-10, 701. 17 0/10/10 0/14/01 0/14/01 0/14/01 Test Requirements 10-20/23 5/14/01 0/14/01 0/14/01 0/14/01 0/14/01 0/14/01 Test Requirements Stort Test Complete Test First Stebus Report* Thol Report 3. Summary of Tests Required 1. Non-convironmental tests (etembard room conditions) including Temp, Barametric Procesure, Relative Hamidity, and Cleanliness. 2. Environmental tests including Temp, Relative Hamidity, and Vibration. 3. Environmental-operational tests including, Vibration, Shock, Acceleration, Zero Gravity, High and Low Temp, and Temp Shock. Hote: Detailed test requirements are included in document D2-6140, "Flight Instruments General Specification". 4. Special Facilities and/or Test Equipment (Include Estimated Lead Time) None 5. Test Conducted by: Organization Vendor Tested Location Huyek 6. Required Test Witnesses Organization 2-6167 (Boeing Design Group) 7. Remarks Date 12-20-C1 | | 1. Item lested A | ltitude Indicator | | ***** | | |
| Test Plan (Part) Dec. No. Schedule Actual Date Test Requirements 10-2023 5/14/51 6/14/51 6/14/51 2.2.2733 Test Procedures Start Test Complete Test First Status Report* Final Report 1. Non-environmental tests (etendard room conditions) including Temp, Baremetric Pressure, Relative Humidity, and Cleanliness. 2. Environmental tests including Temp, Relative Humidity, and Vibration. 3. Environmental-operational tests including, Vibration, Shock, Acceleration, Zero Gravity, High and Low Temp, and Temp Shock. Rote: Detailed test requirements are included in document D2-8140, "Flight Instruments General Specification". 4. Special Facilities and/or Test Equipment (include Estimated Lead Time) None 5. Test Conducted by: Organization Vendor Tested Location Huyck Huntington Station, N. Y. 6. Required Test Witnesses Organization 2-5167 (Boeing Design Group) 7. Remarks Date 12-20-C1 | , | Used-On Dwg. No. Supplier Supplier's Address Supplier's Part Number | Huyek Huntington Stati | on, New Y | ork | | |
| Test Plan (Part) Dec. No. Schedule Actual Date Test Requirements 10-2023 5/14/51 6/14/51 6/14/51 2.2.2733 Test Procedures Start Test Complete Test First Status Report* Final Report 1. Non-environmental tests (etendard room conditions) including Temp, Baremetric Pressure, Relative Humidity, and Cleanliness. 2. Environmental tests including Temp, Relative Humidity, and Vibration. 3. Environmental-operational tests including, Vibration, Shock, Acceleration, Zero Gravity, High and Low Temp, and Temp Shock. Rote: Detailed test requirements are included in document D2-8140, "Flight Instruments General Specification". 4. Special Facilities and/or Test Equipment (include Estimated Lead Time) None 5. Test Conducted by: Organization Vendor Tested Location Huyck Huntington Station, N. Y. 6. Required Test Witnesses Organization 2-5167 (Boeing Design Group) 7. Remarks Date 12-20-C1 | ŀ | | | | | | |
| Lest Plan (Prof) D2-509/-10, 701. 11 July 10 Jul | | · lask | | | | | |
| Test Requirements Test Procedures Start Test Complete Test First Status Report 3. Summary of Jests Required 1. Non-environmental tests (standard room conditions) including Temp, Barametric Pressure, Relative Humidity, and Claeminess. 2. Environmental tests including Temp, Relative Humidity, and Vibration. 5. Environmental-operational tests including, Vibration, Shock, Acceleration, Zero Gravity, High and Low Temp, and Temp Shock. Hote: Detailed test requirements are included in document D2-8140, "Flight Instruments General Specification". 4. Special Facilities and/or Test Equipment (include Estimated Lead Time) None 5. Test Conducted by: Organization Vendor Tested Location Huyck Huntington Station, N. Y. 6. Required Test Witnesses Organization 2-5167 (Boeing Design Group) 7. Remarks Date 12-20-C1 | | Took Dian (Oa I) | | | | | |
| Test Procedures Start Test Complete Test First Status Report 1. Non-environmental tests (otendard room conditions) including Temp, Barametric Pressure, Relative Humidity, and Cleenliness. 2. Environmental tests including Temp, Relative Humidity, and Vibration. 3. Environmental-operational tests including, Vibration, Shock, Acceleration, Zero Gravity, High and Low Temp, and Temp Shock. Note: Detailed test requirements are included in document D2-8140, "Flight Instruments General Specification". 4. Special Facilities and/or Test Equipment (include Estimated Lead Time) None 5. Test Conducted by: Organization Vendor Tested Location Huyck Huntington Station, N. Y. 6. Required Test Witnesses Organization 2-5167 (Boeing Design Group) 7. Remarks Date 12-20-C1 | ŀ | | | | And the second second second | | To he makestic |
| Start Test Complete Test First Status Report 3. Summary of Tests Required 1. Non-environmental tests (otendard room conditions) including Temp, Beremetric Pressure, Relative Munidity, and Cleenliness. 2. Environmental tests including Temp, Relative Munidity, and Vibration. 3. Environmental-operational tests including, Vibration, Shock, Acceleration, Zero Gravity, Migh and Low Temp, and Temp Shock. Note: Detailed test requirements are included in document D2-8140, "Flight Instruments General Specification". 4. Special Facilities and/or Test Equipment (Include Estimated Lead Time) None 5. Test Conducted by: Organization Vendor Tested Location Huyck Huntington Station, M. Y. 6. Required Test Witnesses Organization 2-6167 (Boeing Design Group) 7. Remarks Date 12-20-C1 | ŀ | | 10-20/28 | | 6/14/51 | 6/14/61 | 2. 25/75205 |
| Complete Test First Status Report 3. Summary of Tests Required 1. Non-environmental tests (etandard room conditions) including Temp, Barametric Pressure, Relative Humidity, and Cleenliness. 2. Environmental tests including Temp, Relative Humidity, and Vibration. 3. Environmental-operational tests including, Vibration, Shock, Acceleration, Zero Gravity, High and Low Temp, and Temp Shock. Note: Detailed test requirements are included in document D2-8140, "Flight Instruments General Specification". 4. Special Facilities and/or Test Equipment (Include Estimated Lead Time) None 5. Test Conducted by: Organization Vendor Tested Location Huyck Huntington Station, N. Y. 6. Required Test Witnesses Organization 2-6167 (Bosing Design Group) 7. Remarks Date 12-20-C1 | ì | | | | | | |
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| 3. Summary of Tests Required 1. Non -environmental tests (standard room conditions) including Temp, Barametric Pressure, Relative Humidity, and Cleanliness. 2. Environmental tests including Temp, Relative Humidity, and Vibration. 3. Environmental-operational tests including, Vibration, Shock, Acceleration, Zero Gravity, High and Low Temp, and Temp Shock. Note: Detailed test requirements are included in document D2-8140, "Flight Instruments General Specification". 4. Special Facilities and/or Test Equipment (include Estimated Lead Time) None 5. Test Conducted by: Organization Vendor Tested Location Huyck Huntington Station, N. Y. 6. Required Test Witnesses Organization 2-5167 (Boeing Design Group) 7. Remarks Date 12-20-C1 | ł | | | C- 1- | | | |
| 3. Summary of Tests Required 1. Non -environmental tests (etendard room conditions) including Temp, Barametric Pressure, Relative Humidity, and Cleanliness. 2. Environmental tests including Temp, Relative Humidity, and Vibration. 3. Environmental-operational tests including, Vibration, Shock, Acceleration, Zero Gravity, High and Low Temp, and Temp Shock. Note: Detailed test requirements are included in document D2-8140, "Flight Instruments General Specification". 4. Special Facilities and/or Test Equipment (include Estimated Lead Time) None 5. Test Conducted by: Organization Vendor Tested Location Huyck Huntington Station, N. Y. 6. Required Test Witnesses Organization 2-5167 (Boeing Design Group) 7. Remarks Date 12-20-C1 | 1 | | | | La Constitution of the Con | | |
| 1. Non -environmental tests (standard room conditions) including Temp, Barametric Pressure, Relative Humidity, and Cleanliness. 2. Environmental tests including Temp, Relative Humidity, and Vibration. 3. Environmental-operational tests including, Vibration, Shock, Acceleration, Zero Gravity, High and Low Temp, and Temp Shock. Note: Detailed test requirements are included in document D2-8140, "Flight Instruments General Specification". 4. Special Facilities and/or Test Equipment (include Estimated Lead Time) None 5. Test Conducted by: Organization Vendor Tested Location Huyek Huntington Station, N. Y. 6. Required Test Witnesses Organization 2-6167 (Boeing Design Group) 7. Remarks Date 12-20-C1 | ŀ | | | 10-1-02 | | 1 | |
| Detric Pressure, Relative Humidity, and Cleanliness. 2. Environmental tests including Temp, Relative Humidity, and Vibration. 3. Environmental-operational tests including, Vibration, Shock, Acceleration, Zero Gravity, High and Low Temp. and Temp Shock. Note: Detailed test requirements are included in document D2-8140, "Flight Instruments General Specification". 4. Special Facilities and/or Test Equipment (Include Estimated Lead Time) None 5. Test Conducted by: Organization Vendor Tested Location Huyck Huntington Station, N. Y. 6. Required Test Witnesses Organization 2-5167 (Ebeing Design Group) 7. Remarks Date 12-20-C1 | -1 | 3. Summary of Tests Re | eçu i red | / | | | |
| Organization Vendor Tested Location Huyek Huntington Station, N. Y. 6. Required Test Witnesses Organization 2-6167 (Boeing Design Group) 7. Remarks Being negotiated per D2-80396. Date 12-20-61 | | Note: Detailed t Instrument 4. Special Facilities of | High and Low Temp. assest requirements are as General Specifications and/or Test Equipment (i | nd Temp S included on". | hock. | nt D2-614 | |
| Organization Vendor Tested Location Huyek Huntington Station, N. Y. 6. Required Test Witnesses Organization 2-6167 (Boeing Design Group) 7. Remarks Being negotiated per D2-80396. | L | | | | | | |
| Organization 2-6167 (Boeing Design Group) 7. Remarks Being negotiated per D2-20396. Date 12-20-01 | | | Vendor Tested | Locati | | tington S | tation, N. Y. |
| Date 12-20-01 | | | | n Group) | | | |
| 1-15-6% D2-5607 1/ D2- | | 7. Remarks | Being negotiated per l | D2-80396. | | | |
| 1-15-6% D2-5607 1/ D2- | | | | | | | |
| 1-15-6% D2-5607 1/ D2- | | | | | | 10 01 | |
| | + | 1 1 000 /2 13 | | Date | | 12-20- | CI |
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1-15-62 *submitted monthly thereafter 2-6:51-0-5

Organization

7. Remarks

Date

2-6167 (Boeing Design Group)

Being negotiated per D2-80396.

12-20-61

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Page I Comit

| 1.3.5.3 | QUALIFICATION | TEST PLA | N | | 1 |
|--|--|---------------------|------------|----------------|--|
| Program Element No. | | | | | Brief No. |
| I. Item Tested Velo | city Error Indicator | | | | ** |
| Spec. & Dwg. No. (s) Used-On Dwg. No. | 10-81012 | • | | • | |
| Supplier Supplier's Address | Nuyel: Nuntington Station, | New York | | | |
| Supplier's Part Number | | | | | |
| 2. Schedule Summary | * | | | | |
| · Task | Reference | Submittal Dates App | | | val |
| | Doc. No. | Schedula | | Date | Ву |
| Test Plan (Frel) | D2-5607-15, VolIV | 3/14/51 | 0/14/51 | 8/14/61 | |
| Test Requirements | 10-81012 | | 6/30/61 | 6/30/11 | The second second second second second second second second second second second second second second second se |
| Test Procedures | and the second s | 11/ | 77.207.51 | 197.297 | 4.4 Ma .4377-155 |
| Start Test | | 5-1-12 |) | 1111111 | mmmm |
| Complete Test | | | H 11 24 | <i>\\\\\\\</i> | 4 44444444 |
| First Status Report | | 4-1-62 | | MMM | |
| Final Report | | 10-1-52 | 9 | THE PARTY OF | anamin' |
| Note: Detailed | l-operational tests in , High and Low Temp. as test requirements are ts General Specificati | nd Temp, included | Shock: | | general de la companya de la company |
| | | | | | |
| 4. Special Facilities | and/or Test Equipment () | nclude Est | 'mated Lea | rd Time) | • |
| 4. Special Facilities | and/or Test Equipment (i | nclude Est | imated Lea | ad Time) | · |
| 4. Special Facilities | | nclude Est | mated Lea | od Time) | |
| Non | e | nclude Est | 'mated Lea | ad Time) | |
| | e | nclude Est | e | ad Time) | |
| Non 5. Test Conducted by | e : | Locati | on | | , New York |
| Non 5. Test Conducted by | e : Vendor Tested Huyck | Locati | on | | , New York |
| Non 5. Test Conducted by Organization | e : Vendor Tested Huyck | Locati | on | | , New York |

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1-15-62 *submitted monthly thereafter 2-6181-0-5

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Date

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Page

QUALIFICATION TEST PLAN

Brief No.

1.3.5.9

6. Required Test Witnesses Organization

7. Remarks

12-20-61 Date 1-15-62 D2-5697-16 Page *submitted monthly thereafter Vol. 1V 1500 172 2-6|8|-0-5

2-5167 (Boeing Design Group)

Will To negotiated por D2-80396 middle orgaliar.

| | - QUALIFICA | TION TEST PLA | N | | 64 | |
|--|--|---------------------------------|---------------------------------|--------------|-------------------|-----|
| Program Element No. | | | | 8 | Brief No. | |
| I. Item Tested Com | to the same of the | 3.42: 5.12:00 | 3. J | | | |
| Spec. & Dwg. No. (Used-On Dwg. No. Supplier Supplier's Address Supplier's Part Numb | is) Recing Day. No MGA - Passeciate Francisca. Coops | . 2 5-86223 | | nı Jersey | | |
| 2. Schedule Summar | y | | | | | |
| Task | Reference | Submittal | Dates | Appro | val | - 1 |
| | Doc. No. | Schedule | | Date | By | _ |
| Test Pion | | 3-15- 2 | | 1-0.0 | -/ | _ |
| Test Regulrements | | - | | | | _ |
| Test Procedures | | | | 1 | | _ |
| Stort Test | V///////////////////////////////////// | 111) | | mm | mm | 777 |
| Complete Test | VIIIIIIIIIIII | 1112 | | WHIH | *********** | 444 |
| First Status Report* | | | | WHIT | | # |
| Final Report | | 2-19-53 | | THE STATE OF | www. | 111 |
| 3. Summary of Tests | vednisag | | 4 | • | | |
| | | , п | | | | |
| • | | . 4 | | | | |
| 4. Special Facilities | s and/or Tost Equipme | nt (Include Est | Imated Le | ead Time) | | |
| 4. Special Facilities | s and/or Test Equipme | nt (Include Est | imated Le | ad Time) | | |
| 4. Special Facilities | s and/or Test Equipme | nt (Include Est | imated Le | ad Time) | | |
| 4. Special Facilities 5. Test Conducted b Organization | y: RGA | nt (include Est | | den, New J | ersey | |
| 5. Test Conducted b | ry: RGA n | | | | ersey | |
| 5. Test Conducted b Organization 6. Required Test Will Organization 7. Remarks | y: RGA n Inesses n | Locati | on Car | den, New J | tests in | |
| 5. Test Conducted b Organization 6. Required Test Will Organization 7. Remarks | ry: RGA n Inesses n | Locati | on Car | den, New J | tests in | |
| 5. Test Conducted b Organization 6. Required Test Will Organization 7. Remarks | y: RGA n Inesses n | Locati CA, will conduil not be | on Car with qual added to | den, New J | tests in Lent. | |

Program Element No.

Brief No.

I. Ite: Tested

Test Data/Yolce Cland. Atter Interna & Transmission Line System.

Spec. & Dwg. No. (s) 72-3135, Antonnas, Mindows & Pack Lines Space.

U.ed-On Dwg. No.

Supplier

Docing Co. (plus various or lessabetes)

Supplier's Address Southtle, Machington

Supplier's Part Number

2. Schedule Summary

| Task Test Plan | Reference Doc. No. | Submittal Dates | | Approval | |
|----------------------|--|-----------------|--------|-------------|---|
| | | Schodule | Actual | Date | By |
| | | P-110-5+ | 0.10.0 | 0.000 | - |
| Test Requirements | 772 4-00-0 | 5.22.2 | 2-1-31 | 44.0 | S. C. Carlle |
| Test Procedures | In teles | 5 20 50 | _ | | |
| Start Test | VIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII | 5-13-11 | _ | mm | 777777777777777777777777777777777777777 |
| Complete Test | | | | 4444 | |
| First Status Report* | The state of the s | 19-2-5 | | <i>####</i> | |
| Final Report | ta-"a'.a-a | 2.15.53 | | MILLI | |

3. Summary of Tests Required

Temperature Tests - From 150°F to (man. to be determined)

Nonidity Tests - From 55°F to 100°F at 100° relative humidity

Vibration Tests - Random vibration in 3: usually perpendicular and

Shock Tests - Cl5g acceleration impact, shocks from 55 to 100 eps

Acceleration Tests - 1.5 to 10 g's if specified in individual equip, spec.

Temperature Shock Tests + 105°F to -40°F

Send end Dust Tests - 0.1 to 0.5 grams/Fr3, 77°F to 160°F, velocity to 500 ft/min

Temperature-Altitude Tests + 80°F to 105°F, atmos. to 50,000 ft.

4. Special Facilities and/or Test Equipment (include Estimated Lead Time)

Some temperature, shock and vibration tests will require simulated Dyna-Soar installations such as antonnas mounted in wing panels and waveguide attached to structure.

5. Test Conducted by: Eccing Rig. Inbs.
Organization

Location

Secttle, Wash.

6. Required Test Witnesses
Organization 2-5166

7. Remarks

There are a great many components in an enterma spate. Is they are released via source control drawings, The shoots, and condiscountry drawings, individual test plans will be incorporated in this does one.

Date 12-25-62

1-15-62

2-6181-0-5

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| Program Element No. | QUALIFICATION TEST PLAN | | | | 2 Brief No. | |
|---|---|-----------|-------------------------|----------------------|------------------------------------|--|
| tom lested | em lested | | | | | |
| Spec. & Dwg. No. (Used-On Dwg. No. Supplier | Boeing Co. (plus veriou | | | mission . | Lino System | |
| Supplier's Address Supplier's Part Numb 2. Schedule Summar | et accepted, weskington | | | | | |
| · Task | Reference Doc. No. | Submittal | | Approval | | |
| | | Schedule | | Date | By | |
| est Plan | 12-557-15, Vol. IV | | 9-13-51 | | | |
| est Requirements | 12-00100-0 | Lan. in | | 9-18-61 | B.T. 1.7.1.1 | |
| est Procedures | T2-27500-2 | 5-20-/0 | | | | |
| itart Test | | 11-15-60 | | mm | mmm | |
| Complete Tost | | 2.2 % | | <i>44444</i> | <i>\$444444</i> | |
| Irst Status Report* | | 10-2-70 | | HHHH | ********* | |
| inal Report | 72_00100-9 | | | VIIII | | |
| Shock Tests - O | Required ts - From 140°F (more From 55°F to 100°F or - Random vibration in 15g acceleration impact sts - 1.5 to 10 g's if ck Tests + 135°F to -40 | shoels i | From 5 to l in indiv | 100 cps idual. eq | mes wip. spec. ity to 500 ft | |

4. Special Facilities and/or Test Equipment (include Estimated Lead Time)

Some temperature, shock and vibration tests will require similated Dyna-Soar installation such as antonnas mounted in wing panels and waveguide attached to structure.

5. Test Conducted by: Boeing Eng. Labs
Organization

Location Scattle, Wash.

- 6. Required Test Witnesses
 Organization 2-6166
- 7. Remarks

There are a great many components in an antenna system. As they are released via source control drawings, BAC sheets, and manufacturing drawing, individual test plans will be incorporated in this document.

| | Date 12-15-61 | | | |
|--|---------------|-----------------------|----------|--|
| 1-15-62 *submitted monthly thereafter 2-6181-0-5 | 175 | D2-5697-16 Vol. 1V | Page 155 | |

| | No. of the Contract of the Con | Marie Malay tala | AND - WING | | | | |
|--|--|---------------------------------|-------------------------------------|--------------------|---------------|--|--|
| 1.3.7.1 | QUALIFICATION TEST PLAN 3 | | | | | | |
| Program Element No. | GOALITICATION TEST PLAN | | | | Brief No. | | |
| I. Item Tested High | Temperature Nickel Fl | exible Ma | vomi do - | Y Pand | Dite: 140. | | |
| Spec. & Dwg. No. (s) Used-On Dwg. No. Supplier Not Know Supplier's Address Supplier's Part Number 2. Schedule Summary | 10-81121, High Temp Not Known on | | | V_Dand | e | | |
| Task | 0.6 | 1 | | | | | |
| IUSK | Reference | Submittal | | | pproval | | |
| Test Plan (prel.) | Doc. No. | Schedule | | Date | Ву | | |
| Test Requirements | D2-5697-16 Vol. IV | 1-12-62 | 1-15-05 | 1+12-62 | B. I. NeCaffr | | |
| Test Procedures | 10-81121 | 2-2-62 | | | " | | |
| Start Test | Jumples Degreent | 6-10-62 | | | | | |
| Complete Test | | 9-17-62 | | | mmmm | | |
| First Status Report* | | 10-17-52 | | | | | |
| Final Report | | 10-17-62 | 65 | | | | |
| 3. Summany of Tosts P. | equired eristics - Measure at ng capability. | 11-17-62 | | | THE COUNTY | | |
| Vibration - Random Time-Temperature - four times. Pressure - pressure Structural Integrit 4. Special Facilities of High temperature an available at the su | | itually peright temper on tests | rpindicul rature du ngle test | ar axes. ty cycle: | ٠ | | |
| 5Test Conducted by: Organization | Not known | Location | n Not kr | IOWZ | | | |
| 6. Required Test Witner Organization | sses 2-6166 (Boeing Des | ign Orgn.) | | | | | |
| 7. Remarks | | | | | | | |
| | s only. To be negotic about 5-18-62 | ated with | supplier | who is to | be : | | |
| | | Date 1 | -19-62 | > . | λ. | | |
| 1-15-62 *submitted monthly the 2-6181-0-5 | ereafter 1 | 76 | D2- | 5697-16 . 1V. | Page 150.1 | | |

1.3.7.5

Program Element No.

QUALIFICATION TEST PLAN

Brief No.

. Item Tested

C-Bend Transponder Antenna & Transmission Line System

Spec. & Dwg. No. (s)

D2-8136, Antonnas, Windows & Feed Lines Spec.

Used-On Dwg. No.

Supplier

Boeing Co. (plus various subcontractors)

Supplier's Address Scattle, Wasnington

Supplier's Part Number

2. Schedule Summary

| Reference Doc. No. | | | Approval | | |
|--|-------------------|--|---|---|--|
| | Schedulo | Actual | | By | |
| | 0.30 51 | Control of Carry | | | |
| TO-Coleccio | | 2271 | Mark. | 1.7.6 1.4. | |
| | The second second | | | 5.5 | |
| VIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII | 5-30-52 | | | | |
| \//////////////////////////////////// | 11-17-2 | | | | |
| THE PROPERTY OF THE PARTY OF TH | | | | | |
| 12-00409-2 | 22-7- 7 | | | | |
| | Doc. No. | Doc. No. Schedule 172-507-15, Vol. IV 0-20-51 172-507-50-0 1-30-62 172-607-00-1 1-30-62 172-607-00-1 1-30-62 | Doc. No. Schedule Actual 172-507-15, Vol. IV 0-20-51 0-22-51 172-507-00-0 1-30-62 173-607-01 1-15-62 | Doc. No. Schedulo Actual Date 172-505-50-0 5-30-52 172-505-0-1 5-30-52 | |

3. Summary of Tests Regulred

Temperature Tests - From 140°F to (max. to be determined)
Humidity Tests - From 55°F to 100°F at 100% relative humidity
Vibration Tests - Random vibration in 3 mutually perpendicular axes
Shock Tests - 6.5g acceleration impact shocks from 5 to 100 cps
Acceleration Tests - 1.5 to 10 g's if specified in individual equip. spec.
Temperature Shock Tests + 185°F to -40°F
Sand and Dust Tests - 0.1 to 0.5 grams/FT³, 77°F to 160°F, velocity to 500 ft/mir.
Temperature-Altitude Tests + 80°F to 185°F, atmos. to 50,000 ft.

4. Special Facilities and/or Test Equipment (include Estimated Lead Time)

Some temperature, shock and vibration tests will require simulated Dyna-Soar installations such as antennas mounted in wing panels and waveguide attached to structure.

5. Test Conducted by: Docing This. Labs
Organization

Location Secttle, Wash.

6. Required Test Witnesses Organization 2-6166

7. Remarks

There are a great many components in an antenna system. As they are released via source control drawings, BAC sheets, and manufacturing drawing, individual test plans will belincomporated in this document.

1-15-62

*submitted monthly thereafter 2-6181-0-5 177

Date 12-15.41

D2-5697-16 Vol. 1V

Page 160

| 1.3.7.5 | GUALIF. TAUD | V TEST PLA | N | 1 | |
|---|--|-----------------------------------|--|-------------------------|---|
| Program Element No. | | | | | Brief No. |
| I. Item Tested High | Temperature Mency F | lexible Wa | veguide - | C-Band | |
| Spec. & Dwg. No. (s Used-C., Dwg. No. Supplier Not Supplier's Acciress Supplier's Part Numbe 2. Schedule Summary |) 10-81121, I'm berm Not Known Known | | | | e |
| | | | | | |
| Took | Reference | Submittel | Dares | Aspro | yel |
| | Doc. No. | Schedule | | Date | By |
| Test Plan (Frel.) | D2-55%/-16 Vol. IV | 1-12-02 | 7 | 1-12-62 | B. I. KoCaffro |
| Test Requirements | 10-81121 | 2-2-52 | | 1-12-02 | D. I. I.COMAIPO |
| Test Procedures | ביייים שניטלע ביט בון ביינונן | 5-18-62 | | | |
| Start Test | | 9-17-62 | | 111111 | 711111111111111111111111111111111111111 |
| Complete Test | | 0-16-65 | 1 | | |
| First Status Report* | | 10-17-12 | | | |
| Final Report | | 11-17-02 | | | |
| 3. Summary of Tests R | lequired teristies∵ Heasure Att | | , | L | |
| Vibration-Random vime-Temperature - four times. Pressure - pressur Structural Integri | rop tests and transporvibration in three mut - Following typical flore leakage and expandity - Extension, flore and/or Test Equipment (and random vibration t | ight temper c tests r, bend | pindicular erature du ungle test | r axes. uty cycle ts. | ; cycled |
| | | | v | | |
| 5. Test Concerted by Organization | Not known | Location | on Not kno | own | |
| 6. Record Test With Organization | | esign Orgn | 1) | | |
| 7. Remarks Tentative dat selected on o | | iated with | supplier | who is t | o be : |
| | | Data | 1-10-6 | 2 | i |

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1-15-62
*submitted monthly thereafter
2-6|8|-0-5

178

D2-5597-16 Vol. 1V

Page 160.1

| Program Element No. | QUALLING | IN IEST LIV | 114 | } | 0 |
|--|---|-----------------------|----------------|-----------------|--|
| Lostad | | | | | Brief No. |
| Spec. Q E /g. No. (Used-Cn Dwg. No. Supplier | Mortronics Hawthorne, Californ er 5153700-501 | | | · | |
| Task | Reference | Submittel | Sec. | Appro | val |
| Test Class (s. 1 | Doc. No. | Schedule | 2 44 | Data | By |
| Test Plan (Prel.) | 12-55-7-16, V. IV | | -21-0 | | |
| Test Regulrements | | 1-5-52 | | 2-24-01 | R. Draw |
| Test Procedures | | - | | | |
| Start Test | 111111111111111111111111111111111111111 | | | mm | mm |
| Complete Test | VIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII | 4 | | <i>44444</i> | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX |
| First Status Report* | | 1 | | <i>4///////</i> | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX |
| Final Report 3. Summary of Tests | | | | MILL | 4111111 |
| Temperature Humidity Functional and Perf During environm | Cormance Tests | | | | |
| d. Temperature a. Munidity Functional and Perform b. During environm c. Following environm Radio Frequency Int b. Susceptibility Radiated Interform Special Facilities | Cormance Tests mental tests conmental tests erference Tests to Eadio Interference | | | d Time) | · |
| d. Temperature e. Humidity Functional and Perf a. During environm c. Following environm Radio Frequency Int a. Susceptibility c. Radiated Interf d. Special Facilities Test Tabilities | ormance Tests ental tests onmental tests erference Tests to Radio Interference erence and/or Test Lcul | be utilize | d. | d Time) | |
| Special Facilities Test Tabilities Test Conducted by Organization | cormance Tests ental tests conmental tests erference Tests to Radio Interference erence and/or Test | | d. | | |
| d. Temperature e. Humidity Functional and Perf a. During environm b. Following environ Radio Frequency Int a. Susceptibility b. Radiated Interf c. Special Facilities Test Tabilities Test Conducted by Organization Required Test With | ormance Tests ental tests onmental tests erference Tests to Radio Interference erence and/or Test Laurant (of the supplier will | be utilize | d. | | alifornia |
| d. Temperature e. Humidity Functional and Perf a. During environm b. Following environm Radio Frequency Int a. Susceptibility b. Radiated Interf c. Special Facilities Test Tabilities Test Conducted by Organization Required Test With Organization | ormance Tests ental tests conmental tests erference Tests to Radio Interference erence and/or Test Lyu | be utilize | d. | | alifornia |
| d. Temperature e. Humidity Functional and Perf a. During environm b. Following environ Radio Frequency Int a. Susceptibility b. Radiated Interf c. Special Facilities Test Tabilities Test Conducted by Organization Recuired Test With Organization The Recuire Compa Remarks | ormance Tests ental tests conmental tests erference Tests to Radio Interference erence and/or Test Lautum of the supplier will : : : : : : : : : : : : : : : : : : | be utilize | d. n Hew | | alifornia |
| d. Temperature e. Humidity Functional and Perf a. During environm b. Following environm Radio Frequency Into a. Susceptibility b. Radiated Interf c. Radiated Interf d. Special Facilities Test Tabilities Test Conducted by Organization Fortronics Div., c. Required Test With Organization Fortronics Compa Remarks Dates are | ormance Tests ental tests conmental tests erference Tests to Radio Interference erence and/or Test Lyu | Location with sur | n Hew | thorne, C | alifornia |
| d. Temperature e. Humidity Functional and Perf a. During environm b. Following environm Radio Frequency Into a. Susceptibility b. Radiated Interf c. Radiated Interf d. Special Facilities Test Tabilities Test Conducted by Organization Fortronics Div., c. Required Test With Organization Fortronics Compa Remarks Dates are | ormance Tests ental tests conmental tests erference Tests to Radio Interference erence and/or Test Lautum of the supplier will : : : : : : : : : : : : : : : : : : | Location with sur | n Hew | thorne, C | alifornia |
| d. Temperature During environm Functional and Perf During environm Following environm Redio Frequency Into Susceptibility Radiated Interfo Special Facilities Test Tabilities Test Conducted by Organization Fortronics Div., Required Test With Organization Remarks Dates are | ormance Tests ental tests conmental tests erference Tests to Radio Interference erence and/or Test Lyu | Location on with sur | n Hew | thorne, C | alifornia |

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| I. Item Tested Conversion and Sto. Spec. C. Dwg. No. (s) 10-61003 Used-Ca. Dwg. No. Supplier Rectro-Mech Supplier's Address Protein, Flore Supplier's Part Number Rectro-Mech Rectro-Me | ical Research rida John Hel School John Hel Sch | Dates Actual Significant of the second of t | Data pired in in. per di both flig | irection ght and s |
|--|--|--|--|------------------------------|
| Spec. C. Dwg. No. (s) 10-61003 Used-C. Dwg. No. Supplier Supplier's Address Prisota, Flore Supplier's Part Number C. Supplier's Part Number C. Task Reference Dec. No. Test Flore Test Requirements 10-61005 Test Procedures Start Test Complete Test First Status Report* Final Report 1. ENVIRONMENT 1.1 Vibration 1.2 Shock 1.3 Acceleration 1.4 Temperature 1.5 Hundiity 2. Signal Outputs 3. Power Input Variation Required Requ | ical Research rida John Hel School John Hel Sch | Dates Actual g is required 5), 30 minus emes for | Appropriate in the per distribution of the per distrib | the followirection |
| Supplier's Part Number 2. Schedule Summary Task Test Requirements Test Procedures Start Test Complete Test First Status Report* Final Report 1. ENVIRONMENT 1.2 Shock 1.3 Acceleration 1.4 Temperature 1.5 Humdiity 2. Signal Outputs 3. Power Input Variation Required Required Required Continued to the state of the st | ication Testing NERAL CONDITION Tablex, 6.5 (RMS) ticipated extre | Dates Actual g is required 5), 30 minus emes for | Data pired in in. per di both flig | the followirection |
| Test Requirements Test Requirements Test Procedures Start Test Complete Test First Status Report* Final Report 3. Summary of Tests Required areas: 1. ENVIRONMENT 1.1 Vibration 1.2 Shock 1.3 Acceleration 1.4 Temperature 1.5 Humdity 2. Signal Outputs 3. Power Input Variation Required Requir | ication Testing NERAL CONDITION Tablex, 6.5 (RES) ticipated extre | g is requision, 30 mi | Data pired in in. per di both flig | the followirection |
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| Final Report 3. Summary of Tests Required Qualificates: 1. ENVIRONMENT GET Con 1.1 Vibration Con 1.2 Shock 1.3 Acceleration 1.4 Temperature Ant 1.5 Humdity 2. Signal Outputs 2 3. Power Input Variation Required Requirements 2 | ication Testing MERAL CONDITION TO THE C | g is requision in the second s | in. per di | irection ght and s |
| Final Report 3. Summary of Tests Required Qualificates: 1. ENVIRONMENT GET Con 1.1 Vibration Con 1.2 Shock 1.3 Acceleration 1.4 Temperature Ant 1.5 Humdity 2. Signal Outputs 2 3. Power Input Variation Required Requirements 2 | MERAL CONDITION TO THE CONDIT | (5), 30 mi | in. per di | irection ght and s |
| areas: 1. EMVIRONMENT 1.1 Vibration 1.2 Shock 1.3 Acceleration 1.4 Temperature 1.5 Humdiity 2. Signal Outputs 3. Power Input Variation Required | MERAL CONDITION TO THE CONDIT | (5), 30 mi | in. per di | irection ght and s |
| areas: 1. EMVIRONMENT 1.1 Vibration 1.2 Shock 1.3 Acceleration 1.4 Temperature 1.5 Humdiity 2. Signal Outputs 3. Power Input Variation Required | MERAL CONDITION Implex, 6.5 (RMS ticipated extra """ quirements and | (5), 30 mi | in. per di | irection ght and s |
| | ent (include Esti | mated Lea | ad Time) | |
| Test Conducted by: Organization EAR | Locatio Sarasot | n ta, Flori | da | |
| Required Test Witnesses Organization 2-5636-0 Dyna | -Soar Test Dat | | | |
| | | | | |
| Requirements and Procedur | res per D2-7481 | ates are | being no | egotiated |
| Under environmental condi will be measured. | itions. Perfor | mance wi | th simula | ited inpu |
| 15-62 | | | 10-04 | -51 |
| 15-62 *submitted monthly thereafter -6181-0-5 | Date | .• | 14.77 | - |

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| | ram Element No. | | | | | Brief No. 1 |
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| Spec Used Supp Supp Supp | Surfa s. & Dwg. No. (s) d-On Dwg. No. plier To be plier's Address plier's Pall Numba | | |)°F) | | |
| 2. | Schedule Summar, | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ···· | | |
| | Task | Caferance | Schmittel. | Date | Atan | SVIII. |
| 1 | rusx. | Doc. No. | Schodula | | Data | by |
| Test | Plan (1.) | 10- 7-1 4 561 | | the state of the s | The second second | |
| | Reculrements | 22-2019); | 7 | | 10,17. | 7 |
| - | Procedures | 20.000 | | | + | - |
| | t Tost | VIIIIIIIIII | 777 | | mm | mm |
| | molete Test | VIIIIIIIIII | 111 | | 7///// | 3444444 |
| | t Status Report* | THE PROPERTY OF | // | | VIIIII | |
| | Report | | | | 1111111 | |
| | Summary of Tests! | Do andread | 10 10 30 | | | 1 |
| b. c. d. e. f. g. h. | Vibration; Dyn Static Acceler Temperature; Temperature; Humidity; 95% Temperature C | na-Soar boost envir ration; 10 g's sust Dyna-Soar non-opera low (-200°F) enviro C. H. @ 85°F envir ycles; Dyna-Soar op | cained along 3 ational (-65 tonment conment cerational (30 | ation 3 axis to 170°F) | | nen t |
| c. d. e. f. | Vibration; Dyn Static Acceler Temperature; Temperature; Humidity; 95% Temperature C | na-Soar boost envir ration; 10 g's sust Dyna-Soar non-opera low (-200°F) enviro C. H. @ 85°F envir | conment simula cained along 3 ational (-65 to conment conment cerational (30 | mulation ation axis to 170°F) | | nent |
| c. d. e. f. g. h. | Vibration; Dyn Static Acceler Temperature; Temperature; Humidity; 95% Temperature Cy Thermal Shock | na-Soar boost envir ration; 10 g's sust Dyna-Soar non-opera low (-200°F) enviro C. H. @ 85°F envir ycles; Dyna-Soar op | conment simula cained along 3 ational (-65 to comment conment cerational (30 cm 1000°F to 2 | mulation ation 3 axis to 170°F) 000°F Max 2000°F | (.) | nent |
| c. d. e. f. g. h. | Vibration; Dyn Static Acceler Temperature; Temperature; Humidity; 95% Temperature Cy Thermal Shock | na-Soar boost envir ration; 10 g's sust Dyna-Soar non-opera low (-200°F) enviro C. H. @ 85°F envir yeles; Dyna-Soar or ; 200°F per sec fro | conment simula cained along 3 ational (-65 to comment conment cerational (30 cm 1000°F to 2 | mulation ation 3 axis to 170°F) 000°F Max 2000°F | (.) | nent |
| c. d. e. f. g. h. | Vibration; Dyn. Static Acceleration; Acceleration; Temperature; Humidity; 95% Temperature Content of the Thermal Shock Special Facilities | na-Soar boost envir ration; 10 g's sust Dyna-Soar non-opera low (-200°F) enviro C. H. @ 85°F envir yeles; Dyna-Soar or ; 200°F per sec fro | conment simula cained along 3 ational (-65 to comment conment cerational (30 cm 1000°F to 2 | mulation ation 3 axis to 170°F) 000°F Max 2000°F | (.) | nent |
| c. d. e. f. g. h. | Vibration; Dyn. Static Acceleration; Acceleration; Temperature; Humidity; 95% Temperature Content of the Thermal Shock Special Facilities | na-Soar boost envir ration; 10 g's sust Dyna-Soar non-opera low (-200°F) enviro C. H. @ 85°F envir yeles; Dyna-Soar or ; 200°F per sec fro | conment simula cained along 3 ational (-65 to comment conment cerational (30 cm 1000°F to 2 | mulation ation 3 axis to 170°F) 000°F Max 2000°F | (.) | nent |
| 6. 6. 6. 6. 1. | Vibration; Dyn Static Acceler Temperature; Temperature; Humidity; 95% Temperature Cy Thermal Shock Special Facilities Lione arrich | na-Soar boost envir ration; 10 g's sust Dyna-Soar non-opera low (-200°F) environ C. H. @ 85°F environ ycles; Dyna-Soar or ; 200°F per sec from and/or Test Equipment | conment simula cained along 3 ational (-65 to comment conment cerational (30 cm 1000°F to 2 | mulation ation 3 axis to 170°F) 000°F Max 2000°F | (.) | nent |
| 6. 6. 6. 6. 1. | Vibration; Dyn. Static Acceleration; Acceleration; Temperature; Humidity; 95% Temperature Content of the Thermal Shock Special Facilities | na-Soar boost envir ration; 10 g's sust Dyna-Soar non-opera low (-200°F) enviro C. H. @ 85°F envir yeles; Dyna-Soar or yeles; Dyna-Soar or ; 200°F per sec fro and/or Test Equipment thated | conment simula cained along 3 ational (-65 to comment conment cerational (30 cm 1000°F to 2 | mulation ation 3 axis to 170°F; 000°F Max 2000°F | (.) | nent |
| 4. 5. | Vibration; Dy. Static Acceler Temperature; Temperature; Humidity; 95% Temperature C; Thermal Shock Special Facilities Lione artici | na-Soar boost environation; 10 g's susting pration; 10 g's susting properties of the control of | conment simulariance along ational (-65 sonment conment control (30 sm 1000°) to 2 | mulation ation be axis to 170°F; 000°F Max 2000°F | ead Time) | ment |
| 4. 6. | Vibration; Dy. Static Acceleration: Temperature; Humidity; 95% Temperature C. Thermal Shock Special Facilities Lone anticit Test Conducted by Organization Required Test Wit Organization Remarks SCD. School | na-Soar boost environation; 10 g's susting plants of susting control of the susting control of the susting control of the sustant of the sust | conment simulation of along 3 ational (-65 soment comment comment comment comment comment of 1000°F to 2 be a location of the | mulation ation beaution converse conver | ead Time) | |
| 4. 5. | Static Acceleration; Dyn. Static Acceleration: Temperature; Temperature; Humidity; 95% Temperature C. Thermal Shock Special Facilities Lione anticities Lione anticities Required Test With Organization Remarks SCD, School Decing particular for the negative | na-Soar boost environation; 10 g's susting praction; 10 g's susting properties of the control of | conment simula cained along 3 ational (-65 conment conment conment conment con 1000°F to 2 confidence and Transport and Transpor | mulation ation s axis to 170°F; coo°F Max 2000°F | ead Time) | |

| 2.0.2.1 | | | | | |
|--|--|-----------------------|-------------------|------------|---------------------------------------|
| Program Element No. | QUALIFICATION | TEST PLA | N | | |
| tom i stad | | | | | Brief No. 2 |
| High | Temperature Flutter | Trendênco: | rs. | | |
| Spec. & Dwg. No. (s) Used-On Dwg. No. Supplier Supplier's Address Supplier's Part Number 2. Schedule Summary | 20 be deter in | od 1 | > | · | |
| Task | Reference | Submittal | Dalas | T A | 2001 |
| | Doc. No. | | | Appro | |
| Test Plan (2:51.) | 71-5 77-10. Vol. 1 | Schodulo | | Date | by |
| Test Requirements | 10-01095 | 10-11- | 12-15 | 12-15-0 | I I Transa |
| Test Procedures | 4 | | | | |
| Start Test | mmmmm | 1 | | | |
| Complete Test | ///////////////////////////////////// | 1 | | V///// | |
| First Status Report* | | | | 1111111 | |
| Final Report | | / | _ | 111111 | |
| 3. Summary of Tests Re | reviend | 1 | | | |
| 4. Special Facilities a: Unlanown | nd/or Test Equipment (I | nc!ude EstI | mate d L e | ead Time) | · · · · · · · · · · · · · · · · · · · |
| | | | | | • |
| 5. Test Conducted by: Organization | Supplier | Locatio | n | | |
| 6. Required Test Witnes Organization | Communication at 2-6166 | nd Transd | ucers V | nit | |
| 7. Remarks SCD. scho | | | | | |
| To be neg | duled release date Fe otiated with supplier | Dinicity 15 | , 1962 * Ma | y 1, 1962] | |
| To be neg | duled release date Fo otiated with supplier | Participy 15 Appro | | y |) |

| 2.4.2.2 | QUALIFICATIO | N TEST PLAN | N | | |
|---|--|------------------------|-------------------------------------|-----------------|---|
| Program Element No. | | | | | Brief No. |
| . Item Tested | -Temperature Accolera | dia Com | | | |
| Spec. & Dwg. No. (s) Used-On Dwg. No. Supplier Supplier's Address Supplier's Part Numbe | 10-31094 [30 to determine | | <u></u> | • | • |
| 2. Schulle Summary | | Lawrence | 2 | | |
| Task | Jeference Doc. No. | Schodula Schodula | | Appro | |
| Test Plan (2003.) | 70-1 0-15, 0-1, 0- | 12-14-11 | Calcing a sale had a | 9.07 | 31 |
| Test Requirements | 30-30-6 | T- | - | 100.00 | 1 1 1 |
| Test Procedures | 1 | 1 | | | |
| Start Test | VIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII | // | _ | mm | mmm |
| Complete Yest | <i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i> | 9 | | 14444 | 444444444444444444444444444444444444444 |
| First Status Report* | The state of the s | - | - | 1111111 | |
| Final Report | | / | - | 1111111 | |
| 3. Summary of Tests ! | Parutead | - | | | |
| | ed of 80D. | | | | · · . |
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| | | | | | |
| 4. Special Facilities | and/or Test Equipment | (Include Est | imated Le | ecd Time) | |
| | | (Include Est | Imated Le | ed Time) | |
| | and/or Test Equipment | (Include Est | imated Le | ecd Time) | |
| | and/or Test Equipment monm Sumplies | (Include Est | d | ecd Time) | |
| Unit 5Test Conducted by | and/or Test Equipment morm Sumplier nesses Communication | Locati | on | | |
| 5. Test Conducted by Organization 6. Required Test With | and/or Test Equipment morm Sumplies nesses Communication | Locati | on | | |
| 5. Test Conducted by Organization 6. Required Test With Organization 7. Remarks | and/or Test Equipment morm Sumplies nesses Communication | Locati on and Trans | on ducers U | 'nit | |
| 5. Test Conducted by Organization 6. Required Test With Organization 7. Remarks SCD, Settle To be no | and/or Test Equipment commission commission commission commission 2-6166 | Locati on and Trans | on ducers U , 1912 K May | init //,/962 | |
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